

**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL OPERATIONS (EO)  
AGENCY INTEREST NO.: 2367  
SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**I. Background**

Syngenta Crop Protection - St. Gabriel Plant, manufactures and formulates pesticides and specialty chemicals. The plant is located on River Road (LA. 75), approximately 0.5 miles south of the intersection of La. 74 and River Road in Iberville Parish. The Environmental Operations (EO) currently operates under Permit No. 2718-V1 issued on October 2, 2006.

This is the Part 70 operating permit for the Environmental Operations (EO) Facility only.

**II. Origin**

A permit application and Emission Inventory Questionnaire was submitted by Syngenta Crop Protection - St. Gabriel Plant on January 8, 2007, as well as additional information dated March 2, 2007, requesting a Part 70 operating permit modification.

**III. Description**

The Syngenta St. Gabriel Plant manufactures and formulates pesticides and specialty chemicals. Specific processes include: 1) manufacture, formulation, and packaging of s-triazine herbicides, 2) manufacture of hydrogen cyanide, a raw material, 3) manufacture, formulation, and packaging activities for various other pesticides, and specialty chemicals, and 4) supportive activities for the above which include effluent treatment systems, maintenance, utilities, analytical and quality control. Additionally, hazardous and non-hazardous solid waste streams are incinerated in the St. Gabriel Plant multi-purpose rotary kiln incinerator. This application addresses the Environmental Operations services only, as described below.

**Environmental Operations**

A rotary kiln incinerator system is operated as a multipurpose unit to destroy both liquid and solid, hazardous and non-hazardous waste generated on site and off-site. The on site waste is waste generated from pesticide manufacturing and packaging, specialty chemical manufacturing, development operations, effluent treatment operation, maintenance, and utilities.

Syngenta off-site sources are subsidiary warehousing and distribution terminals and other Syngenta manufacturing and associated facilities. These wastes include herbicide and pesticide container rinse waters, herbicide and pesticide containers (empty), products contaminated with various agricultural products, spill residues and waste from other Syngenta affiliated manufacturing sites, and non-hazardous waste from Ciba Specialty Chemicals multipurpose dye stuffs manufacturing.

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The waste handling systems are described below.

**Container (Drum) Unloading**

Containers (drums) of liquid waste (slurry, aqueous liquid, or organic liquid) will be pumped to the aqueous or organic tank farms. A drum vent will vent fumes through the drum hood blower to the drum unloading vent carbon adsorber, Emission Point 4-87.

**Tank Truck Unloading**

Two tank truck-unloading spots are utilized, referred to as direct burn site and tank farm unloading site. Liquid waste (slurry, aqueous liquid, or organic liquid) will be pumped from arriving tank trucks via pumps to the tank farm or storage prior to incineration. The direct burn pump will be used to pump wastes directly to the MPI for incineration.

Nitrogen will be introduced into the top of each tank truck during pumping operations to prevent the discharge of fumes into the atmosphere. The tank truck will be vented to the vent carbon absorbers (Emission Point 1-87) while the tank is pumped to the aqueous tank farm. The tank truck unloading area sump will catch spilled material and water, which will be pumped to aqueous storage or treatment.

**Waste Feed Storage Tanks**

Currently eight existing waste feed storage tanks are permitted. Typically, two of the tanks are organic waste tanks, 16,000 and 18,500 gallon capacity, two are 24,500 gallon organic tanks, one is a 24,500 gallon aqueous tank, and three are 23,500 gallon aqueous waste (below 10% organic carbon content and HHV normally less than 8,000 BTU/lb) tanks. The tanks vent to a carbon adsorption system consisting of three S-type carbon canisters. Waste streams are delivered via in-plant piping systems, tank truck and containers.

Typical aqueous liquid waste is normally contaminated with herbicide/pesticide characterized waste, dye stuff waste, low concentrations of chlorinated and non-chlorinated organic compounds, high concentrations of sodium chloride, traces of cyanide salts, and small amounts of solvents (xylene, toluene, alcohols and acetone).

Typical organic waste is F or U type and other ignitable waste with a heating value greater than 8,000 BTU/lb, including discarded organic commercial products, off specification raw material, and other process intermediates. These wastes generally include methanol, acetone, xylene, toluene, alcohols, and carbon tetrachloride and contain 0 to 15% chlorine. Chemical and physical analyses are performed on all waste materials prior to storage.

Feed tank 4403-FG is also piped to allow the isolation of aqueous slurry waste material and equipped with positive displacement pumps to feed the slurry to the slurry lance in the rotary kiln. Tank 4403-FG can also be used as an alternate aqueous storage tank.

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**Containerized and Bulk Solids Systems**

Containerized solids (bags, plastic drums, and fibers packs) and 55-gallon slurry containers are received on pallets at the truck unloading dock. Containers are moved into storage, and subsequently to container staging. Various conveyors move the containers from the staging area to the container lift for charging to the rotary kiln.

Bulk solid waste is collected in waste containers and held in a storage area adjoining the bulk solids shredder. The waste containers are lifted by the waste container cranes, and attached to the bulk solids processing enclosure for discharge into the shredder hopper. The shredded trash discharges into a compactor that feeds the trash into a waste container for intermediate storage.

Shredded waste is unloaded into a hopper and fed into the shredder solids feed conveyor which elevates the material to the double airlock feeder.

A bag filter vents the shredder hopper, shredder solids auger hopper, and the shredded solids feed conveyor. The bag filter vent fan discharges to the suction side of the combustion air blower for kiln burner "A" during kiln operation and to the bulk solids vent carbon adsorber, Emission Point 3-87, when the kiln is operating on a turn down load or is not operating.

The bulk bag unloader is used to transfer powder from bulk bags to smaller containers. A dust collector rated at 99.5% efficiency for particles less than 1 microgram diameter is used to minimize dust emissions.

**Sludge/Carbon System**

Activated carbon or other bulk waste is transported by truck to the carbon dumpster unloading station and then conveyed to the sludge silo filling conveyor, for mixing on the conveyor with sludge. Sludge waste from dewatering belt filters and activated carbon waste are conveyed to the mixed sludge storage silo. The sludge is conveyed to a weigh belt feeder and then elevated to the kiln sludge feed hopper. The sludge is charged to the kiln via a variable feed auger dumping into the kiln combustion air duct at the feed chute. Feed rate is controlled to maintain a constant hopper level.

**Multipurpose Incinerator (MPI) System**

The incinerator system consists of a rotary kiln incinerator, secondary combustion chamber (SCC), quench chamber, particle conditioner, Hydro-Sonic scrubber, induced draft fan, and a vent stack. A brief description of each process is listed below.

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**Rotary Kiln Incinerator**

The rotary kiln incinerator (approximately 12 ft. ID x 40 ft. long) is refractory lined and designed to operate at 2,200 °F. The kiln is capable of handling six discrete feeds as follows:

- (1) Organic liquids,
- (2) Aqueous liquids,
- (3) Slurry,
- (4) Sludge,
- (5) Bulk solids, and
- (6) Containerized solids.

In addition to these feeds, the kiln will be fed with auxiliary fuel (natural gas), combustion air, and atomizing steam or air. Feed is introduced to the kiln through a burner, a nozzle, two lances, and a double air lock and chute mounted to the front of the kiln.

Organic liquid is fed into kiln burner (A) and atomized with either air or steam. The atomizing flow is controlled by maintaining a fixed pressure differential between the atomizing stream and the organic liquid. Auxiliary natural gas is also fed to the burner to maintain the temperature of the flue gas. Organic liquid feed can also be used to maintain the flue gas temperature exiting the kiln. The flow of combustion air is controlled by proportioning it to the sum of the flow rates of organic liquid feed and auxiliary natural gas. Secondary combustion air, from the combustion air blower, is injected into the kiln through the front wall.

Aqueous liquids are fed to the kiln through the primary aqueous nozzle with steam or air as the atomizing fluid. Pressure differential between the atomizing fluid and the aqueous liquid is used to control the flow of atomizing fluid.

Slurry waste is fed to the slurry lance using positive displacement pumps, with flow controlled by pump speed.

Sludge is fed to the kiln via a variable speed auger dumping into the kiln combustion air duct at the feed chute.

Shredded bulk solid waste is fed into the kiln by the shredded solids feed conveyor through the double air lock and feed chute assembly. Containerized solid waste is elevated and dumped into the feed chute through a vertical slide gate. An interlock system prevents the double air lock and the vertical slide gate from being open at the same time.

The kiln is sloped 4 degrees to allow the ash (slag) to drop from the kiln exit into the water filled ash trough. Flue gas exiting the kiln enters the secondary combustion chamber. Kiln rotation is regulated between 0.02 to 0.185 rpm to control retention time and temperature. Fire "eyes" monitor the performance of the burners in both the rotary kiln and the SCC. Television cameras are provided to

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check operations in the double airlock and feed chute of the rotary kiln and in the upper and lower section of the secondary combustion chamber.

The secondary combustion chamber (SCC) can be fired with both organic and aqueous waste introduced through two burners and a nozzle mounted in the SCC. The SCC also has an additional aqueous nozzle. Hot flue gases from the rotary kiln and the secondary burner rise up through the upper section of the SCC which is provided with a secondary safety relief valve. Auxiliary natural gas is fed to the secondary burners to regulate the temperature of the flue gas exiting the SCC.

Combustion air is supplied to the burners by combustion air blowers for burners C-1 and C-2.

**Quench Chamber**

Hot gas exiting the SCC enters the top of the quench chamber, where it is cooled and saturated by direct contact with water. A level of water is maintained in the bottom of the quench chamber and recirculated by pumps back to the chamber. The pH of the quench water is continuously monitored and controlled by the addition of 50% caustic solution. There is a net loss of water from the quench system since the exiting flue gases leave water saturated. Fresh process water is added to the bottom of the quench chamber to maintain the liquid level. Cooled flue gas, approximately water saturated, exits the quench chamber and flows to the particle conditioner.

**Particle Conditioner**

The particle conditioner has additional water quench to ensure that the flue gas leaves water saturated. Flue gas, from the discharge of the induced draft fan, can be recycled to the flue gas inlet nozzle of the particle conditioner to maintain a constant pressure drop across the Hydro-Sonic scrubber.

**Hydro-Sonic System**

Flue gas exiting the particle conditioner is separated into two parallel streams, each flowing to an identical Hydro-Sonic unit. The Hydro-Sonic unit is a two-stage venturi type scrubber. Scrubbing water (flow controlled) from the hydro recirculation tank is injected into the barrel of the first stage venturi. A liquid drain downstream of the first stage venturi allows water to flow by gravity to the hydro recirculating tank. Scrubbing water from the entrainment separator tank is injected into the barrel of the second stage venturi. The gas/liquid mixture exits the second stage venturi and flows to cyclones where the liquid is separated from the gas stream and returned to the entrainment separator tank.

The pH of the first and second stage scrubbing media is continuously monitored, indicated and controlled by caustic addition.

The entrainment separator tank has fresh water added to maintain tank level and over flow drains to the hydro recirculation tank. A controlled purge stream is taken from the discharge of hydro No. 1 recirculating pump and combined with the quench purge and sent for disposal.

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**Induced Draft Fans and Stack**

The two scrubber flue gas streams are recombined and flow to the suction of the first of two induced draft fans in series. The fans maintain a negative pressure on the incinerator system. The first fan provides about 70% of the required vacuum, with the second (new) fan providing the rest. A recycle stream is taken from the discharge of the second fan and injected into the inlet to the particle conditioner to maintain a constant pressure drop across the Hydro-Sonic scrubber. The remainder of the flue gas is exhausted to the atmosphere through the 140-foot incinerator stack, Emission Point 2-87.

**Waste Solids Treatment Unit**

The WST unit is a treatment system for the scrubber blowdown water from the MPI, CC Unit Vent Gas Combustor, and the Westvaco carbon regeneration furnace. The facility removes the majority of particulates and destroys the carbonates by acidification. The wastewater solids are sent to a landfill and the liquid effluent is discharged through the plant's LPDES system.

**Environmental Treatment (ET)**

Effluent treatment consists of aqueous waste treatment (AWT), carbon adsorption treatment (CAT), BOD abatement system (BAS), and stormwater-environmental systems. ET is the final treatment point of most wastewaters from the various on-site production facilities. A recently constructed Calcium Chloride Plant is also operated in the ET area.

**Aqueous Wastewater Treatment (AWT)**

The AWT system neutralizes wastewaters containing small amounts of hydrogen cyanide and ammonia from the HCN unit and dilute acidic solutions from the HPF-CC unit. The HCN effluent is reacted with chlorine, and the dilute acid is neutralized with lime or sodium hydroxide to produce a neutral wastewater that is discharged into the river. Spent caustic from the HPF-CC unit is also used in AWT to neutralize effluent. AWT also treats effluent from the Utilities Area.

**Carbon Adsorption System (CAS)**

The CAS system treats wastewater containing small amounts of organics from several operating units. In the system, the wastewater passes through an activated carbon bed where the organics are adsorbed onto the carbon. The effluent from the system is sent to the BAS to biodegrade any other components before discharging to the river. Wastewater is collected in the CAS Feed Surge Tank from the non-triazine surge vessel 2447-F and the triazine surge vessel 2414-F.

When the activated carbon is sufficiently loaded with organics, it is regenerated in the Westvaco furnace (EIQ Point Source 4-78) where the organics are incinerated. The regenerated carbon is returned to the carbon adsorption beds for reuse. The Westvaco furnace consists of a natural gas fired combustor with steam injection, regeneration chamber, drying chamber, afterburner, precooling, pH

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controlled venturi/scrubber and stack. Spent carbon is fed through the drying chamber prior to flowing through the regeneration chamber and exiting the furnace.

The proposed modifications are as follows:

1. Incorporate Comprehensive Performance Test (CPT) results for the Multi-Purpose Incinerator;
2. Revise the control efficiencies and emission rates for metals in conformance with the approved NOC;
3. Revise the emission rate and system removal efficiency for hydrochloric acid in conformance with the approved NOC;
4. Increase the volatile organic compound (VOC) maximum hourly emission rate from the Multi-Purpose Incinerator from 2.0 to 10.07 pounds/hour. These additional VOC emissions are from combustion of natural gas during start-up (heat up) and shutdown (cool down) of the incinerator;
5. Add the Compliance Assurance Monitoring (CAM) requirements for Emission Point 3-04, Caustic Scrubber and Emission Point 24701, Lime Storage Silo No. 2;
6. Add one 500 gallon diesel tank per LAC 33:III.501.B.5.A3.; and
7. Add several minor emissions of toxic air pollutants that were previously omitted.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>		
	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	16.00	10.82	- 5.18
SO <sub>2</sub>	17.74	17.74	-
NO <sub>x</sub>	106.04	106.14	+ 0.10
CO	32.26	36.16	+ 3.90
VOC	29.22	31.47	+ 2.25

Toxic Air Pollutant

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,1,1-Trichloroethane	0.015	0.015	-
1,1,2,2-Tetrachloroethane	0.015	0.015	-
1,1,2-Trichloroethane	0.015	0.024	+ 0.009
1,2-Dibromomethane	0.015	0.015	-
1,2-Dichloroethane	0.015	0.015	-
1,2-Dichloropropane	0.015	0.015	-
1,3-Butadiene	0.015	0.015	-
1, 3-Dichloropropylene	0.015	0.015	-
1,4-Dichlorobenzene	0.015	0.015	-

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**Toxic Air Pollutant**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,4-Dioxane	0.015	0.015	-
2,4-Toluene diisocyanate	0.015	0.015	-
2,4-Dinitrotoluene	0.015	0.015	-
2,6-Dinitrotoluene	0.015	0.015	-
2-nitro-Propane	0.015	0.015	-
2,6-Toluene diisocyanate	0.015	0.015	-
Acetaldehyde	0.015	0.015	-
Acetonitrile	0.015	0.015	-
Acrolein	0.015	0.015	-
Acrylamide	0.015	0.015	-
Acrylic Acid	0.015	0.015	-
Acrylonitrile	0.015	0.015	-
Allyl Chloride	0.015	0.015	-
Ammonia	1.860	1.085	- 0.775
Aniline	0.015	0.015	-
Antimony (and compounds)	0.015	0.009	- 0.006
Arsenic (and compounds)	0.015	0.006	- 0.009
Barium (and compounds)	0.015	0.061	+ 0.046
Benzene	0.016	0.015	- 0.001
Beryllium (Table 51.1)	0.006	0.006	-
Biphenyl	0.015	0.015	-
Bis (2-Chloroethyl) Ether	0.015	0.015	-
Cadmium (and compounds)	0.037	0.037	-
Carbon Disulfide	0.015	0.015	-
Carbon Tetrachloride	0.035	0.035	-
Carbon Sulfide	0.015	0.015	-
Chlorine	0.440	0.440	-
Chlorobenzene	0.152	0.152	-
Chloroethane	0.015	0.015	-
Chloroform	0.109	0.109	-
Chloromethane	0.015	0.015	-

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<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Chloroprene	0.015	0.015	-
Chromium VI (and compounds)	0.003	0.006	+ 0.003
Copper (and compounds)	3.900	0.025	- 3.875
Cresol	0.015	0.015	-
Cumene	0.015	0.015	-
Cyanide compounds	0.00001	0.00001	-
Diaminotoluene	0.015	0.015	-
Dibutyl Phthalate	0.015	0.015	-
Dichloromethane	0.060	0.055	- 0.005
Epichlorohydrin	0.015	0.015	-
Ethyl Acrylate	0.015	0.015	-
Ethylbenzene	0.015	0.034	+ 0.019
Ethylene Glycol	0.398	0.398	-
Ethylene Oxide	0.015	0.015	-
Formaldehyde	0.015	0.015	-
Glycol Ethers	0.015	0.015	-
Hexachlorobenzene	0.015	0.015	-
Hexachlorobutadiene	0.015	0.015	-
Hexachloroethane	0.015	0.015	-
n-Hexane	0.029	0.029	-
Hydrazine	0.015	0.015	-
Hydrochloric Acid	0.044	5.94	+ 5.896
Hydrogen Cyanide	0.018	0.018	-
Hydrogen Sulfide	0.015	0.015	-
Lead Compounds	0.590	0.037	- 0.553
Maleic Anhydride	0.015	0.015	-
Manganese (and compounds)	2.000	0.141	- 1.859
Mercury (and compounds)	0.040	0.032	- 0.008
Methanol	9.303	9.303	-
Methyl Ethyl Ketone	0.015	0.015	-
Methyl Isobutyl Ketone	0.015	0.015	-

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<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Methyl Methacrylate	0.015	0.005	- 0.010
n-Butyl Alcohol	0.015	0.015	-
Naphthalene	0.015	0.015	-
Nickel (and compounds)	0.440	0.031	- 0.409
Nitrobenzene	0.015	0.015	-
Phenol	0.015	0.015	-
Phosgene	0.015	0.015	-
Phthalic Anhydride	0.015	0.015	-
Polynuclear Aromatic Hydrocarbon	0.015	0.015	-
Propionaldehyde	0.015	0.015	-
Propylene Oxide	0.015	0.015	-
Pyridine	0.015	0.015	-
Selenium (and compounds)	0.015	0.007	- 0.008
Silver	0.950	0.067	- 0.883
Styrene	0.015	0.015	-
Tetrachloroethylene	0.015	0.015	-
Thallium	1.050	0.014	- 1.036
Toluene	11.150	11.15	-
Trichloroethylene	0.015	0.015	-
Vinyl Acetate	0.015	0.015	-
Vinyl Chloride	0.015	0.015	-
Vinylidene Chloride	0.015	0.015	-
Xylene	0.015	0.015	-
Zinc (and compounds)	0.900	0.035	- 0.865
Total	34.580	30.261	- 4.319

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**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and NESHAP. Prevention of Significant Deterioration does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

The Environmental Operations (EO) is subject to 40 CFR 63, Subpart EEE – Hazardous Waste Incineration.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, on XX, 2007, and in the Plaquemine Post/South, Plaquemine, on XX, 2007, and submitted to the Iberville Parish Library, East Iberville Branch, on XX, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XX, 2007. The draft permit was also submitted to US EPA Region VI on XX, 2007. All comments will be considered prior to the final permit decision.

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**VII. Effects on Ambient Air**

Dispersion Model Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
Antimony	8-hour	0.015 $\mu\text{g}/\text{m}^3$	11.9 $\mu\text{g}/\text{m}^3$
Arsenic	Annual	0.001 $\mu\text{g}/\text{m}^3$	0.02 $\mu\text{g}/\text{m}^3$
Barium	8-hour	0.109 $\mu\text{g}/\text{m}^3$	11.9 $\mu\text{g}/\text{m}^3$
Beryllium	Annual	<0.001 $\mu\text{g}/\text{m}^3$	0.04 $\mu\text{g}/\text{m}^3$
Cadmium	Annual	<0.001 $\mu\text{g}/\text{m}^3$	0.06 $\mu\text{g}/\text{m}^3$
Chromium	Annual	<0.001 $\mu\text{g}/\text{m}^3$	0.01 $\mu\text{g}/\text{m}^3$
Copper	8-hour	0.488 $\mu\text{g}/\text{m}^3$	23.8 $\mu\text{g}/\text{m}^3$
Manganese	8-hour	0.250 $\mu\text{g}/\text{m}^3$	27.6 $\mu\text{g}/\text{m}^3$
Mercury	8-hour	0.005 $\mu\text{g}/\text{m}^3$	1.19 $\mu\text{g}/\text{m}^3$
Nickel	Annual	0.002 $\mu\text{g}/\text{m}^3$	0.21 $\mu\text{g}/\text{m}^3$
Selenium	8-hour	0.071 $\mu\text{g}/\text{m}^3$	4.76 $\mu\text{g}/\text{m}^3$
Zinc	8-hour	0.109 $\mu\text{g}/\text{m}^3$	119 $\mu\text{g}/\text{m}^3$

**VIII. General Condition XVII Activities**

Activity	Frequency	Pollutant	TPY
EQT320: 5-74 Incinerator (Feed Tanks)	240 hrs/yr	VOC	0.84

**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL OPERATIONS (EO)  
AGENCY INTEREST NO.: 2367  
SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**IX. Insignificant Activities:**

<u>ID No.:</u>	<u>Description</u>	<u>Capacity</u>	<u>Citation</u>
ET – Effluent Treatment Area			
2403-UF	Poly Electrolyte Mixing Tank	1,200 gals	LAC 33:III.501.B.5.A.3
2417-FA	Polymer Storage	1,400 gals	LAC 33:III.501.B.5.A.3
2417-B	Polymer Storage	1,400 gals	LAC 33:III.501.B.5.A.3
2436-F	Spent Caustic	37,000 gals	LAC 33:III.501.B.5.A.10
2420-F	Sodium Thiosulfate Storage Tank	5,800 gals	LAC 33:III.501.B.5.A.4
2425-F	Ferric sulfate	5,800 gals	LAC 33:III.501.B.5.A.4
24648-F	Diammonium Phosphate	5,000 gals	LAC 33:III.501.B.5.A.4
24651-F	Ferric Chloride/Diammonium Phosphate	10,000 gals	LAC 33:III.501.B.5.A.4
-	Riverlift Station Pump Fuel Tank	280 gals	LAC 33:III.501.B.5.A.3
UTL – Utilities Area			
2009-F	Firewater Pump Diesel Tank	280 gals	LAC 33:III.501.B.5.A.3
2214-LAM	C5 block Firewater Well Fuel Tank	280 gals	LAC 33:III.501.B.5.A.3
2214-LBM	C7 block Firewater Well Fuel Tank	280 gals	LAC 33:III.501.B.5.A.3
2214-LCM	Maint. Block Firewater Well Fuel Tank	280 gals	LAC 33:III.501.B.5.A.3
ADM – Administrative Area			
2801-LF	Emergency Generator Diesel Tank	400 gals	LAC 33:III.501.B.5.A.3
MAINT – Maintenance Area			
2606-F	Diesel Fuel Tank	2,000 gals	LAC 33:III.501.B.5.A.3
-	Equipment Oil Tank	560 gals	LAC 33:III.501.B.5.A.3
2605-F14	Used Oil Mobile Tank	560 gals	LAC 33:III.501.B.5.A.3
2605-F9	Used Oil Tank	560 gals	LAC 33:III.501.B.5.A.3
CaCl Unit – Calcium Chloride Unit			
24725-F	Peroxide Storage Tank	6,000 gals	LAC 33:III.501.B.5.A.4
24752-F	Dilute CaCl <sub>2</sub> Tank	500,000 gals	LAC 33:III.501.B.5.A.4
24780-F	Product Storage Tank	500,000 gals	LAC 33:III.501.B.5.A.4
-	Truck Loading Facility	-	LAC 33:III.501.B.5.A.4
24740-Fb	Surge Vessel	5,000 gals	LAC 33:III.501.B.5.A.4
24740-Fa	Filtrate Receiver	500 gals	LAC 33:III.501.B.5.A.4

**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
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<u>ID No.:</u>	<u>Description</u>	<u>Capacity</u>	<u>Citation</u>
-	Laboratory Hoods	-	LAC 33:III.501.B.5.A.6
-	Painting	-	LAC 33:III.501.B.5.B.2
-	Misc Equipment Preparation/Maintenance	-	LAC 33:III.501.B.5.B.3/B.9
-	Misc Drum Solidification/Weight	-	LAC 33:III.501.B.5.A.7

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## ENVIRONMENTAL OPERATIONS (EO)

AGENCY INTEREST NO.: 2367

SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

## X. Applicable Louisiana and Federal Air Quality Requirements

ID No:	Description	LAC 33:III Chapter																	
		5*	9	11	13	15	2103	2107	2113	2115	2121	2122	2131	2153	2521	29*	51*	56	59
GRP09	Environmental Operations Area	1	1	1	1	1				1						1	1	1	1
EQT320	5-74: Incinerator (Feed Tanks, EQT263-270)					1										1	3	2	
EQT262	4-78: Carbon Regeneration Furnace	1			1	2										3	1		
EQT263	Tank 4402-F Organic Waste																		
EQT264	Tank 4403-FA Aqueous Waste																		
EQT265	Tank 4403-FB Aqueous Waste																		
EQT266	Tank 4403-FC Aqueous Waste																		
EQT267	Tank 4403-FD Aqueous Waste																		
EQT268	Tank 4403-FE Aqueous Waste																		
EQT269	Tank 4403-FG Organic/Aqueous/Slurry Waste																		
EQT270	Tank 4404-F Organic Waste																		
EQT284	2-82: Lime Storage Silo No. 1	1				1													
ARE010	1-87: MPI-Tank Truck Loading/Unloading	1													3				1
EQT255	2-87: Multi-Purpose Incinerator					1	3	1									1	1	
TRT001	3-87: MPI – solids Shredding and Handling System						1											1	
RLP012	4-87: MPI – Drum Unloading Vent	1																1	
GRP041	1-92: Wastewater Solids Treatment and Ancillary Equipment	1												3					1
EQT306	2011BD: Firewater Pump Engine															3	1		
EQT307	2214LAM: Firewater Pump Engine															3	1		
EQT308	2214LBM: Firewater Pump Engine															3	1		
EQT309	2214LCM: Firewater Pump Engine															3	1		
EQT310	25001LAM: Firewater Pump Engine															3	1		

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## ENVIRONMENTAL OPERATIONS (EO)

AGENCY INTEREST NO.: 2367

SYNGENTA CROP PROTECTION, INC - ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

## X. Applicable Louisiana and Federal Air Quality Requirements

ID No:	Description	LAC 33.III Chapter																	
		5*	9	11	13	15	2103	2107	2113	2115	2121	2122	2131	2153	2521	29*	51*	56	59
EQT311	2493JD: Firewater Pump Engine						3	1											
EQT312	2604JM: Engine for Maintenance Pump						3	1											
EQT313	2606ICD: River Lift Pump Engine						3	1											
EQT314	4666LM: Engine for Emergency Generator						3	1											
EQT315	2401-L: AWT Standby Emergency Generator						3	1											
EQT316	24720-F - Overflow Tank								3										
EQT317	24716-F Acid Storage Tank								3										
EQT256	2-99: Bulk Bag Unloader		1				1												
EQT261	3-04: 2 Caustic Scrubbers		1													1			
GRP095	BAS: BAS-BOD Abatement System and Ancillary Equipment									3								3	
GRP096	CFS: Cat Feed Surge Tank and Ancillary Equipment									3								3	
FUG006	FUGEO: Fugitives-Environmental Operations									1								1	
EQT257	2447-F: Non-Triazine Surge Vessel									3								3	
EQT260	2607-F: Gasoline Tank									1								1	
EQT258	24602-F: Final Wastewater Equalization Tank System									3								3	
EQT259	24701: Lime Storage silo No. 2									1								1	
EQT303	Tank 2401-D Neutralizer Reactor																		
EQT304	Tank 2402-D Chlorinator Reactor																		
EQT305	Tank 2425-L Clarifier																		
EQT318	24705-Slacker																		
EQT319	24710-D Neutralizer																		

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL OPERATIONS (EO)**

**AGENCY INTEREST NO.: 2367**

**SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

\* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements which apply to this particular emission source.  
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## ENVIRONMENTAL OPERATIONS (EO)

AGENCY INTEREST NO.: 2367

SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63			40 CFR 64			40 CFR 82		
		Kb	E	VV	V	VV	A	DD	EEE	DD	EEE	DD	EEE	DD	EEE	
GRP097	Environmental Operations Area	1			1			1		1						3
EQT320	5-74: Incinerator (Feed Tanks, EQT263-270)	1														3
EQT262	4-78: Carbon Regeneration Furnace															3
EQT263	Tank 4402-F Organic Waste	3														
EQT264	Tank 4403-FA Aqueous Waste	1														
EQT265	Tank 4403-FB Aqueous Waste	1														
EQT266	Tank 4403-FC Aqueous Waste	1														
EQT267	Tank 4403-FD Aqueous Waste	1														
EQT268	Tank 4403-FE Aqueous Waste	1														
EQT269	Tank 4403-FG Organic/Aqueous/Slurry Waste	1														
EQT270	Tank 4404-F Organic Waste	1														
EQT254	2-82: Lime Storage silo No. 1															
ARE010	1-87: MPI-Tank Truck Loading/Unloading														1	
EQT255	2-87: Multi-Purpose Incinerator	3													1	3
TRT001	3-87: MPI – solids Shredding and Handling System															
RLP012	4-87: MPI – Drum Unloading Vent															
GRP041	1-92: Wastewater Solids Treatment and Ancillary Equipment														3	

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****ENVIRONMENTAL OPERATIONS (EO)****AGENCY INTEREST NO.: 2367****SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA****X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63			40 CFR 64			40 CFR 82
		Kb	E	VV	V	VV	A	DD	EEE	DD	VV	A	DD	
EQT306	2011JBD: Firewater Pump Engine													
EQT307	22141LAM: Firewater Pump Engine													
EQT308	22141LBM: Firewater Pump Engine													
EQT309	2214LCM: Firewater Pump Engine													
EQT310	250011AM: Firewater Pump Engine													
EQT311	2492JD: Firewater Pump Engine													
EQT312	2604JM: Engine for Maintenance Pump													
EQT313	26061CD: River Lift Pump Engine													
EQT314	46661LM: Engine for Emergency Generator													
EQT315	2401-L: AWT Standby Emergency Generator													
EQT316	24720-F – Overflow Tank													
EQT317	24716-F Acid Storage Tank													
EQT256	2-99: Bulk Bag Unloader													
EQT261	3-04: 2 Caustic Scrubbers													
GRP095	BAS: BAS-BOD Abatement System and Ancillary Equipment	3												1
GRP096	CFS: Cat Feed Surge Tank and Ancillary Equipment	3												3
FUG006	FUGEO: Fugitives-Environmental Operations				3		1							1

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****ENVIRONMENTAL OPERATIONS (EO)****AGENCY INTEREST NO.: 2367****SYNGENTA CROP PROTECTION, INC - ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA****X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63			40 CFR 64			40 CFR 82		
		Kb	B	VV	V	VV	A	DD	EEE							
EQT257	2447-F: Non-Triazine Surge Vessel	3														
EQT260	2607-F: Gasoline Tank	3														
EQT258	24602-F: Final Wasterwater Equalization Tank System	3														
EQT259	24701: Lime Storage Silo No. 2														1	
EQT303	Tank 2401-D Neutralizer Reactor															
EQT304	Tank 2402-D.Chlorinator Reactor															
EQT305	Tank 2425-L Clarifier															
EQT318	24705-Slacker															
EQT319	24710-D Neutralizer															

**KEY TO MATRIX**

- 1 -The regulations have applicable requirements which apply to this particular emission source.  
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****ENVIRONMENTAL OPERATIONS (EO)****AGENCY INTEREST NO.: 2367****SYNGENTA CROP PROTECTION, INC - ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA****XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP097: Environmental Operations (EO) Unit	Ban on Non-Essential CFR-Containing Products [40 CFR 82 Subpart C]  Federal Procurement [40 CFR 82 Subpart D]  Labeling of Products Using Ozone-Depleting Substances [40 CFR 82 Subpart F]	DOES NOT APPLY. Syngenta does not sell or distribute any of the listed non-essential CFR Containing Products.  DOES NOT APPLY. Facility is not a Federal department, agency or instrumentality.  DOES NOT APPLY. Facility uses carbon tetrachloride (a regulated ozone depleting substance (ODS), but labeling is not required since the ODS is subsequently destroyed or transformed in the manufacturing process.
EQT263: Tank 4402-F Incineration Feed Tank	NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 60.110b]	DOES NOT APPLY. Tank was constructed prior to July 23, 1984.
EQT262:4-78 Carbon Regeneration Furnace	Emission Standards of Particulate Matter [LAC 33:III.313.C and LAC 33:III.1311]  Control of Emissions of Sulfur Dioxide [LAC 33:III.1503]  Refuse Incinerators [LAC 33:III.2521]  Emission Control and Reduction Requirements and Standards [LAC 33:5109.A]	DOES NOT APPLY. Unit does not generate steam and process not regulated by process weight rate limits.  Exempt from controls. Emits less than 250 tpy.
ARE010: 1-87 MPI Tank Truck Loading/Unloading	Compliance Assurance Monitoring [40 CFR 64]  Volatile Organic Compounds - Loading [LAC 33:III.2107.A]	DOES NOT APPLY. Unit is not a refuse incinerator.  EXEMPT. Burns natural gas per LAC 33:III.5105.
EQT320: 5-74 Incinerator (Feed Tanks EQT263-270)	Compliance Assurance Monitoring [40 CFR 64]	DOES NOT APPLY. Does not meet 40 CFR 64.2 criteria.  DOES NOT APPLY. Does not meet 40 CFR 64.2 criteria.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

## ENVIRONMENTAL OPERATIONS (EO)

AGENCY INTEREST NO.: 2367

SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

## XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT255: 2-87 Multi-Purpose Incinerator	Emission Standards of Particulate Matter [LAC 33:III.1313.C and LAC 33:III.1311]	DOES NOT APPLY. Unit does not generate steam and process not regulated by process weight rate.
	Control of Emissions of Sulfur Dioxide [LAC 33:III.1503] Waste Gas Disposal [LAC 33:III.2115.H.1.a] Standards of Performance for Incinerators [40 CFR 60 Subpart E] CAM – Compliance Assurance Monitoring [40 CFR 64]	Exempt from controls. Emits less than 250 tpy. DOES NOT APPLY. This unit does not treat waste gas streams.
	National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations [40 CFR 63 Subpart DD]	DOES NOT APPLY. Unit does not combust solid waste containing greater than or equal to 50% municipal solid waste. DOES NOT APPLY. Does not meet 40 CFR 64.2 criteria.
GRP041: 1-92 Wastewater Solids Treatment and Ancillary Equipment	Limiting VOC Emissions from Industrial Wastewater [LAC 33:III.2103A] Storage of Volatile Organic Compounds [LAC 33:III.2103.A]	DOES NOT APPLY. Unit treats inorganic compounds only. DOES NOT APPLY. Not a regulated waste management operation or recovery operation as defined in 40 CFR 63.680. DOES NOT APPLY. Tank is not used as a storage vessel.
EQT257: 2447-F Non-Triazine Surge Vessel	Limiting Volatile Organic Compounds Emissions from Industrial Wastewater [LAC 33:III.2153] Emission Control and Reduction Requirements and Standards [LAC 33:5109.A] NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.60.110b] National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations [40 CFR 63 Subpart DD]	DOES NOT APPLY. Wastewater stream contains less than 1,000 ppmv VOC concentration. DOES NOT APPLY. MACT requirements are not applicable to Class III TAP emission sources. DOES NOT APPLY. Tank is not used as storage vessel. DOES NOT APPLY. Not a regulated waste management operation or recovery operation as defined in 40 CFR 63.680.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****ENVIRONMENTAL OPERATIONS (EO)****AGENCY INTEREST NO.: 2367****SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA****XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
GRP096: CFS - Cat Feed Surge Tank and Ancillary Equipment	Storage of Volatile Organic Compounds [LAC 33.III.2103.A]	DOES NOT APPLY. Tank is not use as a storage vessel.
	Limiting Volatile Organic Compounds Emissions from Industrial Wastewater [LAC 33.III.2153]	DOES NOT APPLY. Wastewater stream contains less than 1,000 ppm VOC concentration.
GRP096: CFS - Cat Feed Surge Tank and Ancillary Equipment	NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessel(s) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 60.110b]	DOES NOT APPLY. Tank is not used as storage vessel.
	National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations [40 CFR 63 Subpart DD]	DOES NOT APPLY. Not a regulated waste management operation or recovery operation as defined in 40 CFR 63.680.
FUG006: FUGE0 Fugitive Emissions	Fugitive Emission Control [LAC 33.III.2121]	DOES NOT APPLY. Not a regulated process.
	Fugitive Emission Control [LAC 33.III.2122]	DOES NOT APPLY. Not a regulated process.
	Standards of Performance fro Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry [40 CFR 60 Subpart VV]	DOES NOT APPLY. Not a regulated industry.
	Filling of Gasoline Storage Vessels [LAC 33.III.2131]	EXEMPT. Gasoline throughput is less than 120,000 gallons per year, and less than 10,000 gallons in any 30 day-rolling period.
EQT260: 2607-F Gasoline Tank	NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessel(s) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60 60.110b]	DOES NOT APPLY. Tank is less than 20,000 gallons.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL OPERATIONS (EO)**

**AGENCY INTEREST NO.: 2367**

**SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT258: 24602-F Final Wastewater Equalization Tank System	Storage of Volatile Organic Compounds [LAC 33.III.2103.A] Limiting Volatile Organic Compounds Emissions from Industrial Wastewater [LAC 33.III.2153] NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.60.110b]	DOES NOT APPLY. Tank is not use as a storage vessel. DOES NOT APPLY. Wastewater stream contains less than 1,000 ppm VOC concentration. DOES NOT APPLY. Tank is not used as storage vessel.
GRP095: BAS Aeration Tank and Ancillary Equipment EQT 271-280	National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations [40 CFR 63 Subpart DD]  Storage of Volatile Organic Compounds [LAC 33.III.2103.A]	DOES NOT APPLY. Not a regulated waste management operation or recovery operation as defined in 40 CFR 63.680. DOES NOT APPLY. Tank is not use as a storage vessel.
	Limiting Volatile Organic Compounds Emissions from Industrial Wastewater [LAC 33.III.2153] NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.60.110b]  National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations [40 CFR 63 Subpart DD]	DOES NOT APPLY. Wastewater stream contains less than 1,000 ppm VOC concentration. DOES NOT APPLY. Tank is not used as storage vessel. DOES NOT APPLY. Not a regulated waste management operation or recovery operation as defined in 40 CFR 63.680.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL OPERATIONS (EO)**

**AGENCY INTEREST NO.: 2367**

**SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
Diesel Engines EQT306: 2011JBD	Emission Standards for Particulate Matter Emissions from Fuel Burning Equipment [LAC 33.III.1.313]	DOES NOT APPLY. Unit does not generate steam and process not regulated by process weight rate limits.
EQT307: 2214LAM		
EQT308: 2214LBM		
EQT309: 2214LCM		
EQT310: 25001LAM		
EQT311: 2493JD		
EQT312: 2604JM		
EQT313: 2606ICD		
EQT314: 4666LM		
EQT315: 2401-L		
Overflow Tank EQ316: 24720-F	Storage of Volatile Organic Compounds [LAC 33.III.2103.A]	DOES NOT APPLY. Tank does not store organic compounds.
	NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.60.110b]	DOES NOT APPLY. Tank is less than 20,000 gallons.
Acid Storage Tank EQT317: 24716-F	Storage of Volatile Organic Compounds [LAC 33.III.2103.A]	DOES NOT APPLY. Tank is a process vessel.
	NSPS Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 [40 CFR 60.60.110b]	DOES NOT APPLY. Tank is less than 20,000 gallons.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY  
APPENDIX A  
PART 70 SPECIFIC CONDITIONS**

**ENVIRONMENTAL OPERATIONS (EO)  
AGENCY INTEREST NO.: 2367  
SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

1. The Multi-Purpose Incinerator, Emission Point No. 2-87 (EQT255), is regulated under the National Emission Standards for Hazardous Air Pollutants (NESHAP) from Hazardous Waste Combustors (40 CFR 63 Subpart EEE). The standards required by this rule are based on maximum achievable control technology (MACT). Compliance with the MACT performance standards and emission limits of this Subpart is determined by conducting Comprehensive Performance Tests (CPTs) as required by 40 CFR 63.1207. Performance tests are also done to determine feed rate limits, operating parameter limits, and to demonstrate the performance of the continuous monitoring system as required by 40 CFR 63.1209.

The permittee shall conduct all performance testing at the frequencies specified in 40 CFR 63.1207(d). Within 90 days of completion of the CPT, the permittee shall postmark and submit to the LDEQ, a Notification of Compliance (NOC) documenting compliance with the emission standards and continuous monitoring system requirements, and identifying operating parameter limits under 40 CFR 63.1209 [40 CFR 63.1207(j)].

The Multi-Purpose Incinerator, Emission Point No. 2-87 (EQT255), shall operate within the operating parameters and limits established by the most recent CPT. The established operating parameters and limits from the most recent CPT are included in the most recent NOC which is currently dated April 2005, with additional information dated April 17, 2006, May 16, 2006, and October 10, 2006. In accordance with 40 CFR 63.1206(c)(1), the operating requirements from the NOC , as well as alternative or additional requirements specified under 40 CFR 63.1209(g), are incorporated in the Title V Permit. See Table 1 listing the operating parameter limits for the Multi-Purpose Incinerator, Emission Point No. 2-87 (EQT255). The next CPT must commence no later than 61 months after the date of commencement of the previous CPT, per 40 CFR 63.1207(d)(1). Upon completion of the next CPT and along with the issuance of the corresponding NOC, the permittee shall submit to the LDEQ a permit modification application to modify the current permit with the most current operating parameters and limits from the most recent NOC.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**APPENDIX A**  
**PART 70 SPECIFIC CONDITIONS**

**ENVIRONMENTAL OPERATIONS (EO)**  
**AGENCY INTEREST NO.: 2367**  
**SYNGENTA CROP PROTECTION, INC – ST. GABRIEL PLANT**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**Table 1 - Multi-Purpose Rotary Kiln Incinerator Operating Parameter Limits**

Operational Parameter	Recommended Limit	Averaging Period <sup>(1)</sup>	AWFCO
Maximum total hazardous waste feed rate to kiln	161.1 lb/min	HRA	Y
Maximum pumpable hazardous waste feed rate to kiln	75.5 lb/min	HRA	Y
Maximum total hazardous waste feed rate to SCC	108.5 lb/min	HRA	Y
Maximum mercury feed rate	0.010 lb/hr	12-hr RA	Y
Maximum ash feed rate	2,173 lb/hr	12-hr RA	Y
Maximum semivolatile metals feed rate	5.7 lb/hr	12-hr RA	Y
Maximum low volatility metals feed rate	1.8 lb/hr	12-hr RA	Y
Maximum low volatility metals feed rate from pumpable feed streams	1.7 lb/hr	12-hr RA	Y
Maximum total chlorine feed rate	1,748 lb/hr	12-hr RA	Y
Minimum kiln temperature	781°C	HRA	Y
Minimum SCC temperature	980°C	HRA	Y
Maximum combustion gas flow rate (ID fan power)	42,800 acfm	HRA	Y
Minimum scrubber pressure drop (Scrubber A)	72 in. w.c.	HRA	Y
Minimum scrubber pressure drop (Scrubber B)	74 in. w.c.	HRA	Y
Minimum scrubber liquid flow rate (Scrubber A)	275 gpm	HRA	Y
Minimum scrubber liquid flow rate (Scrubber B)	275 gpm	HRA	Y
Maximum scrubber liquid conductivity	34.3 mS	HRA	Y
Minimum entrainment separator liquid pH	6.4	HRA	Y
Waste viscosity <sup>(2)</sup>	100 cp	N/A	N
Stack gas oxygen content permissive for containerized waste <sup>(3)</sup>	4.5% vol dry	N/A	N
Stack CO concentration (corrected to 7% oxygen)	>100 ppmv	HRA	Y
Kiln Pressure	≥0.0 in. w.c. based on instantaneous monitoring (i.e., no more than 1 second)	Instantaneous	Y

(1) HRA is hourly rolling average; 12-HRA is 12 hour rolling average (defined in LAC 33:V.Chapter 30).

(2) Manufacturer specified OPL added to permit to ensure proper operation.

(3) Facility defined OPL added to permit to ensure safe combustion practices.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## 40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## **40 CFR PART 70 GENERAL CONDITIONS**

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated January 8, 2007, along with supplemental information dated March 2, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

**AI ID:** 2367 Syngenta Crop Protection Inc - St Gabriel Plant  
**Activity Number:** PER20070004  
**Permit Number:** 2718-V2  
**Air - Title V Regular Permit Minor Mod**

Also Known As:	ID	Name	User Group	Start Date
	1280-00007	Syngenta Crop Protection Inc - St Gabriel Plant	CDS Number	04-04-1972
	1280-0007	Syngenta Crop Protection Inc - St Gabriel Plant	Emission Inventory	03-03-2004
LAD053783445	PMTICA	Syngenta Crop Protection Inc	Hazardous Waste Notification	08-18-1980
LAD053783445	WP0956	GPRAs Baselines	Hazardous Waste Permitting	10-01-1997
LAD005487	WP4554	Ciba Geigy	Inactive & Abandoned Sites	11-23-1999
LA0095478	04042	WPC File Number	LPDES Permit #	05-22-2003
		WPC File Number	LPDES Permit #	05-22-2003
		WPC State Permit Number	LWDFPS Permit #	06-25-2003
		WPC State Permit Number	LWDFPS Permit #	06-25-2003
LA-2219-L01		LELAP #	Laboratory Services Division	10-17-2001
G-047-2031		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
GPD-047-0107		Radioactive Material License	Radiation License Number	12-08-2000
GPD-047-0224		Site ID #	Solid Waste Facility No.	11-21-1999
16945		Site ID #	Solid Waste Facility No.	08-13-2001
24824		Ciba-Geigy Corp	Solid Waste Facility No.	01-08-2002
31435		Ciba-Geigy Corp	TEMPO Merge	01-08-2001
38791		Ciba-Geigy Corp	TEMPO Merge	03-22-2001
4418		Syngenta Crop Protection Inc	TEMPO Merge	03-12-2001
45830		Novartis	TEMPO Merge	02-04-2001
48920		Novartis Crop Protection Inc	TEMPO Merge	03-19-2001
75341		Zeneca Ag Production Inc	TEMPO Merge	03-19-2001
96982		Zeneca Inc	TEMPO Merge	03-12-2001
1280-0007		Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70776CBGGYRIVER		TRI #	Toxic Release Inventory	07-08-2004
70776CMRCSHWY75		TRI #	Toxic Release Inventory	07-09-2004
23002025		UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002
729		Water Permit #	Water Permitting	11-21-1999
3905 Hwy 75			Main FAX:	2256421653
St. Gabriel, LA 70776			Main Phone:	2256421100

Physical Location:

PO Box 11

Mailing Address:

General Information

**AI ID:** 2367 Syngenta Crop Protection Inc - St Gabriel Plant  
**Activity Number:** PER2007004  
**Permit Number:** 2718-V2  
**Air - Title V Regular Permit Minor Mod**

St. Gabriel, LA 707760011

Location of Front Gate: 30° 14' 48" 22 hundredths latitude, 91° 6' 12" 63 hundredths longitude, Coordinate Method: GPS Code (Psuedo Range) Differential, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Richard Boudreau	PO Box 11 St. Gabriel, LA 707760011	2256421257 (WP)	Hazardous Waste Permit Contact For
	Ralph Caddell	PO Box 11 St. Gabriel, LA 707760011	2256421483 (WP)	Responsible Official for
	Victor R. Cross	PO Box 11 St. Gabriel, LA 707760011	2256421483 (WP)	Water Permit Contact For
	Victor R. Cross	PO Box 11 St. Gabriel, LA 707760011	2256421483 (WP)	Underground Storage Tank Contact for
	Mark Graham	PO Box 11 St. Gabriel, LA 707760011	2256421794 (WF)	Water Billing Party for
	Mark Graham	PO Box 11 St. Gabriel, LA 707760011	2253179150 (CP)	Radiation Safety Officer for
	Mark Graham	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	Radiation Safety Officer for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	Air Permit Contact For
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	BRUCE.RAFF@SY\T	TEDI Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	TEDI Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	Emission Inventory Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	BRUCE.RAFF@SY\T	Emission Inventory Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	BRUCE.RAFF@SY\T	Accident Prevention Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	BRUCE.RAFF@SY\T	Accident Prevention Billing Party for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	Accident Prevention Billing Party for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	2256421686 (WP)	Accident Prevention Contact for
	Bruce Raff	PO Box 11 St. Gabriel, LA 707760011	BRUCE.RAFF@SY\T	Air Permit Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	Owns
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	Air Billing Party for
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	Operates
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	UST Billing Party for
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	Solid Waste Billing Party for
	Syngenta Crop Protection Inc	PO Box 11 St Gabriel, LA 707760011	2256421100 (WP)	Radiation License Billing Party for

SIC Codes:

2819, Industrial inorganic chemicals, nec  
 2869, Industrial organic chemicals, nec  
 2879, Pesticides and agricultural chemicals, nec

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

**INVENTORIES**  
**AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant**  
**Activity Number: PER20070004**  
**Permit Number: 2718-V2**

**Air - Title V Regular Permit Minor Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE010	1-87 - MPI-Tank Truck Loading/Unloading	400 gallons/min	400 gallons/min			8760 hr/yr (All Year)
EQT254	2-82 - Lime Storage Silo No. 1					8760 hr/yr (All Year)
EQT255	2-87 - Multi-Purpose Incinerator	96 MM BTU/hr				8760 hr/yr (All Year)
EQT256	2-99 - Bulk Bag Unloader					8760 hr/yr (All Year)
EQT257	2447-F - Non-Triazine Surge Vessel	2500 gallons				8760 hr/yr (All Year)
EQT258	24602-F - Final Wastewater Equalization Tank System	4.5 gallons				8760 hr/yr (All Year)
EQT259	24701 - Lime Storage Silo No. 2	50000 lb/hr				8760 hr/yr (All Year)
EQT260	2607-F - Gasoline Tank	3000 gallons				8760 hr/yr (All Year)
EQT261	3-04 - Caustic Scrubbers 1 and 2 (Standby)					8760 hr/yr (All Year)
EQT262	4-78 - Carbon Regeneration Furnace	11 MM BTU/hr				8760 hr/yr (All Year)
EQT263	Tank 4402-F Organic Waste	18500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT264	Tank 4403-FA Aqueous Waste	24500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT265	Tank 4403-FB Aqueous Waste	23500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT266	Tank 4403-FC Aqueous Waste	23500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT267	Tank 4403-FD Aqueous Waste	23500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT268	Tank 4403-FE Organic Waste	24500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT269	Tank 4403-FG Organic/Aqueous/Slurry Waste	24500 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT270	Tank 4404-F Organic Waste	16000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT271	Tank 24649-F Neutralization	8200 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT272	Tank 24650-F Aeration Vessel	850000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT273	Tank 24652-F Mixed Liquid Vessel	17000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT274	Tank 24653-F Flow Split Box	3250 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT275	Tank 24653-LAF Treated Effluent and RAS	186000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT276	Tank 24653-LBF Treated Effluent and RAS	186000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT277	Tank 24655-PA Sand Filter		1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT278	Tank 24655-PB Sand Filter		1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT279	Tank 24656-F Dirty Water Storage Vessel	3750 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT280	Tank 24657-1F Gravity Thickener	20000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT281	Tank 2401-EA Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT282	Tank 2401-EB Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT283	Tank 2402-EA Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT284	Tank 2402-EB Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT285	Tank 2403-EA Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT286	Tank 2403-EB Adsorber		1.27 MM gallons/yr	1.27 MM gallons/yr	Carbon	8760 hr/yr (All Year)
EQT287	Tank 2416-F Flocculator/Flash Mix	2000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT288	Tank 2419-F Cat Feed Surge Vessel	4.5 million gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT289	Tank 2421-F Lamella Gravity Settler		1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)

INVENTORIES

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT290	Tank 2431-A HCN Effluent Vessel	250000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT291	Tank 2435-LA Multimedia Filter	14170 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT292	Tank 2435-LB Multimedia Filter	14170 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT293	Tank 2435-LC Multimedia Filter	14170 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT294	Tank 2435-LD Multimedia Filter	14170 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT295	Tank 24102-DA Acidifier FRP Vessel					8760 hr/yr (All Year)
EQT296	Tank 24102-DB Acidifier FRP Vessel					8760 hr/yr (All Year)
EQT297	Tank 24103-L Clarifier Thickener					8760 hr/yr (All Year)
EQT298	Tank 24107-DA CaCO3 Reactor					8760 hr/yr (All Year)
EQT299	Tank 24107-PA CaCO3 Reactor KO Pot					8760 hr/yr (All Year)
EQT300	Tank 24107-PB Precipitator KO Pot					8760 hr/yr (All Year)
EQT301	Tank 24111-F Filtrate Surge Vessel	9008 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT302	Tank 24116-F WST Surge Vessel	500000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT303	Tank 2401-D Neutralizer Reactor					8760 hr/yr (All Year)
EQT304	Tank 2402-D Chlorinator Reactor	15000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT305	Tank 2425-L Clarifier	72000 gallons	1.27 MM gallons/yr	1.27 MM gallons/yr		8760 hr/yr (All Year)
EQT306	2011JBD - Firewater Pump Engine					26 hr/yr (All Year)
EQT307	2214LAM - Firewater Pump Engine					26 hr/yr (All Year)
EQT308	2214LBM - Firewater Pump Engine					26 hr/yr (All Year)
EQT309	2214LCM - Firewater Pump Engine					26 hr/yr (All Year)
EQT310	25001LAM - Firewater Pump Engine					26 hr/yr (All Year)
EQT311	2493uD - Firewater Pump Engine					26 hr/yr (All Year)
EQT312	2604JM - Engine for Maintenance Pump					26 hr/yr (All Year)
EQT313	2606JCD - River Lift Pump Engine					26 hr/yr (All Year)
EQT314	4666LM - Engine for Emergency Generator					26 hr/yr (All Year)
EQT315	2401-L - AWT Standby Emergency Generator					26 hr/yr (All Year)
EQT316	24720-F - Overflow Tank	18000 gallons				8760 hr/yr (All Year)
EQT317	24716-F - Acid Storage Tank	5000 gallons				8760 hr/yr (All Year)
EQT318	24705-D - Slaker					8760 hr/yr (All Year)
EQT319	24710-D Neutralizer					8760 hr/yr (All Year)
EQT320	5-74 Incinerator and Feed Tanks (EQT264-EQT270)					8760 hr/yr (All Year)
FUG006	FUGEO - Fugitives-Environmental Operations					8760 hr/yr (All Year)
RLP012	4-87 - MPI-Drum Unloading Vent					8760 hr/yr (All Year)
TRT001	3-87 - MPI - Solids Shredding and Handling System		2000 ft <sup>3</sup> /min (actual)	Solid Waste		8760 hr/yr (All Year)

INVENTORIES

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT285 Tank 24102-DA Acidifier FRP Vessel
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT286 Tank 24102-DB Acidifier FRP Vessel
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT287 Tank 24103-L Clarifier Thickener
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT288 Tank 24107-DA CaCO3 Reactor
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT289 Tank 24107-PA CaCO3 Reactor KO Pot
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT300 Tank 24107-PB Precipitator KO Pot
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT301 Tank 24111-F Filtrate Surge Vessel
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	EQT302 Tank 24116-F WST Surge Vessel
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT271 Tank 24164-9-F Neutralization
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT272 Tank 24165-0-F Aeration Vessel
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT273 Tank 24165-2-F Mixed Liquid Vessel
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT274 Tank 24165-3-F Flow Split Box
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT275 Tank 24165-3-LAF Treated Effluent and RAS
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT276 Tank 24165-3-LBF Treated Effluent and RAS
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT277 Tank 24165-5-PA Sand Filter
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT278 Tank 24165-5-PB Sand Filter
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT279 Tank 24165-6-F Dirty Water Storage Vessel
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment	EQT280 Tank 24165-7-LF Gravity Thickner
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT281 Tank 2401-EA Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT282 Tank 2401-EB Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT283 Tank 2402-EA Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT284 Tank 2402-EB Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT285 Tank 2403-EA Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT286 Tank 2403-EB Adsorber
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT287 Tank 2416-F Flocculator/Flash Mix
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT288 Tank 2419-F Cat Feed Surge Vessel
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT289 Tank 2421-F Lamella Gravity Settler
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT290 Tank 2421-A HCN Effluent Vessel
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT291 Tank 2435-LA Multimedia Filter
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT292 Tank 2435-LB Multimedia Filter
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT293 Tank 2435-1C Multimedia Filter
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment	EQT294 Tank 2435-1D Multimedia Filter
GRP097	Environmental Operations	ARE10 1-87 - MPI-Tank Truck Loading/Unloading
GRP097	Environmental Operations	EQT254 2-82 - Lime Storage Silo No. 1
GRP097	Environmental Operations	EQT255 2-87 - Multi-Purpose Incinerator
GRP097	Environmental Operations	EQT256 2-99 - Bulk Bag Unloader
GRP097	Environmental Operations	EQT257 2447-F - Non-Triazine Surge Vessel

**INVENTORIES**

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**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP097	Environmental Operations	EQT258 24602-F - Final Wastewater Equalization Tank System
GRP097	Environmental Operations	EQT259 24701 - Lime Storage Silo No. 2
GRP097	Environmental Operations	EQT260 2607-F - Gasoline Tank
GRP097	Environmental Operations	EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)
GRP097	Environmental Operations	EQT262 4-78 - Carbon Regeneration Furnace
GRP097	Environmental Operations	EQT263 Tank 4402-F Organic Waste
GRP097	Environmental Operations	EQT264 Tank 4403-FA Aqueous Waste
GRP097	Environmental Operations	EQT265 Tank 4403-FB Aqueous Waste
GRP097	Environmental Operations	FUG6 FUGEO - Fugitives-Environmental Operations
GRP097	Environmental Operations	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
GRP097	Environmental Operations	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
GRP097	Environmental Operations	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
GRP097	Environmental Operations	RLP12 4-87 - MPI-Drum Unloading Vent
GRP097	Environmental Operations	TRT1 3-87 - MPI - Solids Shredding and Handling System
GRP097	Environmental Operations	EQT266 Tank 4403-FC Aqueous Waste
GRP097	Environmental Operations	EQT267 Tank 4403-FD Aqueous Waste
GRP097	Environmental Operations	EQT268 Tank 4403-FE Organic Waste
GRP097	Environmental Operations	EQT269 Tank 4403-FG Organic/Aqueous/Slurry Waste
GRP097	Environmental Operations	EQT270 Tank 4404-F Organic Waste
GRP097	Environmental Operations	EQT271 Tank 24649-F Neutralization
GRP097	Environmental Operations	EQT272 Tank 24650-F Aeration Vessel
GRP097	Environmental Operations	EQT273 Tank 24652-F Mixed Liquid Vessel
GRP097	Environmental Operations	EQT274 Tank 24653-F Flow Split Box
GRP097	Environmental Operations	EQT275 Tank 24653-LAF Treated Effluent and RAS
GRP097	Environmental Operations	EQT276 Tank 24653-LBF Treated Effluent and RAS
GRP097	Environmental Operations	EQT277 Tank 24655-PA Sand Filter
GRP097	Environmental Operations	EQT278 Tank 24655-PB Sand Filter
GRP097	Environmental Operations	EQT279 Tank 24656-F Dirty Water Storage Vessel
GRP097	Environmental Operations	EQT280 Tank 24657-LF - Gravity Thickner
GRP097	Environmental Operations	EQT281 Tank 2401-EA Adsorber
GRP097	Environmental Operations	EQT282 Tank 2401-EB Adsorber
GRP097	Environmental Operations	EQT283 Tank 2402-EA Adsorber
GRP097	Environmental Operations	EQT284 Tank 2402-EB Adsorber
GRP097	Environmental Operations	EQT285 Tank 2403-EA Adsorber
GRP097	Environmental Operations	EQT286 Tank 2403-EB Adsorber
GRP097	Environmental Operations	EQT287 Tank 2416-F Flocculation/Flash Mix
GRP097	Environmental Operations	EQT288 Tank 2419-F CatFFeed Surge Vessel

INVENTORIES

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 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP097	Environmental Operations	EQT289 Tank 2421-F Lamella Gravity Settler
GRP097	Environmental Operations	EQT290 Tank 2431-A HCN Effluent Vessel
GRP097	Environmental Operations	EQT291 Tank 2435-LA Multimedia Filter
GRP097	Environmental Operations	EQT292 Tank 2435-LB Multimedia Filter
GRP097	Environmental Operations	EQT293 Tank 2435-LC Multimedia Filter
GRP097	Environmental Operations	EQT294 Tank 2435-LD Multimedia Filter
GRP097	Environmental Operations	EQT295 Tank 24102-DA Acidifier FRP Vessel
GRP097	Environmental Operations	EQT296 Tank 24102-DB Acidifier FRP Vessel
GRP097	Environmental Operations	EQT297 Tank 24103-L Clarifier Thickener
GRP097	Environmental Operations	EQT298 Tank 24107-DA CaCO3 Reactor
GRP097	Environmental Operations	EQT299 Tank 24107-PA CaCO3 Reactor KO Pot
GRP097	Environmental Operations	EQT300 Tank 24107-PB Precipitator KO Pot
GRP097	Environmental Operations	EQT301 Tank 24111-F Filtrate Surge Vessel
GRP097	Environmental Operations	EQT302 Tank 24116-F WST Surge Vessel
GRP097	Environmental Operations	EQT303 Tank 2401-D Neutralizer Reactor
GRP097	Environmental Operations	EQT304 Tank 2402-D Chlorinator Reactor
GRP097	Environmental Operations	EQT305 Tank 2425-L Clarifier
GRP097	Environmental Operations	EQT306 2011JBD - Firewater Pump Engine
GRP097	Environmental Operations	EQT307 2214LAM - Firewater Pump Engine
GRP097	Environmental Operations	EQT308 2214LBM - Firewater Pump Engine
GRP097	Environmental Operations	EQT309 2214LCM - Firewater Pump Engine
GRP097	Environmental Operations	EQT310 25001LAM - Firewater Pump Engine
GRP097	Environmental Operations	EQT311 2493JD - Firewater Pump Engine
GRP097	Environmental Operations	EQT312 2604JM - Engine for Maintenance Pump
GRP097	Environmental Operations	EQT313 2606JCD - River Lift Pump Engine
GRP097	Environmental Operations	EQT314 4666LM - Engine for Emergency Generator
GRP097	Environmental Operations	EQT315 2401-L-AWT Standby Emergency Generator
GRP097	Environmental Operations	EQT316 24720-F - Overflow Tank
GRP097	Environmental Operations	EQT317 24716-F - Acid Storage Tank
GRP097	Environmental Operations	EQT318 24705-D - Slaker
GRP097	Environmental Operations	EQT319 24710-D Neutralizer
GRP097	Environmental Operations	EQT320 574 Incinerator and Feed Tanks (EQT264-EQT270)

## Relationships:

Subject Item	Relationship	Subject Item
EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)	Controls emissions from	EQT316 24720-F - Overflow Tank
EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)	Controls emissions from	EQT317 24716-F - Acid Storage Tank

**INVENTORIES**  
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**Relationships:**

Subject Item	Relationship	Subject Item
EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)	Controls emissions from	EQT318 24705-D - Slaker
EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)	Controls emissions from	EQT319 24710-D Neutralizer
EQT271 Tank 24649-F Neutralization	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT272 Tank 24650-F Aeration Vessel	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT273 Tank 24652-F Mixed Liquid Vessel	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT274 Tank 24653-F Flow Split Box	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT275 Tank 24653-LAF Treated Effluent and RAS	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT276 Tank 24653-LBF Treated Effluent and RAS	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT277 Tank 24655-PA Sand Filter	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT278 Tank 24655-PB Sand Filter	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT279 Tank 24656-F Dirty Water Storage Vessel	Vents to	GRP95 BAS - BAS-BOD Abatement System and Ancillary Equipment
EQT280 Tank 24657-LF - Gravity Thickner	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT281 Tank 2401-EA Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT282 Tank 2401-EB Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT283 Tank 2402-EA Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT284 Tank 2402-EB Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT285 Tank 2403-EA Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT286 Tank 2403-EB Adsorber	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT287 Tank 2416-F Flocculator/Flash Mix	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT288 Tank 2419-F Cat Feed Surge Vessel	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT289 Tank 2421-F Lamella Gravity Settler	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT290 Tank 2431-A-HCN Effluent Vessel	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT291 Tank 2435-LA Multimedia Filter	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT292 Tank 2435-LB Multimedia Filter	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT293 Tank 2435-LC Multimedia Filter	Vents to	GRP96 CFS - Cat Feed Surge Tank and Ancillary Equipment
EQT294 Tank 2435-LD Multimedia Filter	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT295 Tank 24102-DA Acidifier FFRP Vessel	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT296 Tank 24102-DB Acidifier FFRP Vessel	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT297 Tank 24103-L Clarifier Thickener	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT298 Tank 24107-DA CaCO <sub>3</sub> Reactor	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT299 Tank 24107-PA CaCO <sub>3</sub> Reactor KO Pot	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT300 Tank 24107-PB Precipitator KO Pot	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT301 Tank 24111-F Filtrate Surge Vessel	Vents to	GRP41 1-92 - Wastewater Solids Treatment and Ancillary Equipment
EQT302 Tank 24116-F WST Surge Vessel	Vents to	EQT263 Tank 4402-F Organic Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT264 Tank 4403-FA Aqueous Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT265 Tank 4403-FB Aqueous Waste

INVENTORIES

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
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## Relationships:

Subject Item	Relationship	Subject Item
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT266 Tank 4403-FC Aqueous Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT267 Tank 4403-FD Aqueous Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT268 Tank 4403-FE Organic Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT269 Tank 4403-FG Organic/Aqueous/Slurry Waste
EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)	Controls emissions from	EQT270 Tank 4404-F Organic Waste

## Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
A1236	Herbicide Production Facility					
ARE010	1-87 - MPI-Tank Truck Loading/Unloading	34	100	.25	20	77
EQT254	2-82 - Lime Storage Silo No. 1	64	750	.5	90	70
EQT255	2-87 - Multi-Purpose Incinerator	62.7	48200	4	140	185
EQT256	2-99 - Bulk Bag Unloader					
EQT257	2447-F - Non-Triazine Surge Vessel					
EQT258	24602-F - Final Wastewater Equalization Tank System					
EQT259	247/01 - Lime Storage Silo No. 2					
EQT260	2607-F - Gasoline Tank					
EQT261	3-04 - Caustic Scrubbers 1 and 2 (Standby)					
EQT262	4-78 - Carbon Regeneration Furnace	39.6	4200	1.5	100	180
EQT263	Tank 4402-F Organic Waste					
EQT264	Tank 4403-FA Aqueous Waste					
EQT265	Tank 4403-FB Aqueous Waste					
EQT266	Tank 4403-FC Aqueous Waste					
EQT267	Tank 4403-FD Aqueous Waste					
EQT268	Tank 4403-FE Organic Waste					
EQT269	Tank 4403-FG Organic/Aqueous/Slurry Waste					
EQT270	Tank 4404-F Organic Waste					
EQT271	Tank 24639-F Neutralization					
EQT272	Tank 24650-F Aeration Vessel					
EQT273	Tank 24652-F Mixed Liquid Vessel					
EQT274	Tank 24653-F Flow Split Box					
EQT275	Tank 24653-LAF Treated Effluent and RAS					
EQT276	Tank 24653-LBF Treated Effluent and RAS					
EQT277	Tank 24655-PA Sand Filter					
EQT278	Tank 24655-PB Sand Filter					
EQT279	Tank 24656-F Dirty Water Storage Vessel					
EQT280	Tank 24657-LF Gravity Thickener					
EQT281	Tank 2401-EA Adsorber					
EQT282	Tank 2401-EB Adsorber					
EQT283	Tank 2402-EA Adsorber					
EQT284	Tank 2402-EB Adsorber					

**INVENTORIES**  
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**Stack Information:**

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min/actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT285	Tank 2403-EA Adsorber					
EQT286	Tank 2403-EB Adsorber					
EQT287	Tank 2416-F Flocculator/Flash Mix					
EQT288	Tank 2419-F Cat Feed Surge Vessel					
EQT289	Tank 2421-F Lamella Gravity Settler					
EQT290	Tank 2431-A HCN Effluent Vessel					
EQT291	Tank 2435-LA Multimedia Filter					
EQT292	Tank 2435-LB Multimedia Filter					
EQT293	Tank 2435-LC Multimedia Filter					
EQT294	Tank 2435-LD Multimedia Filter					
EQT295	Tank 24102-DA Acidifier FRP Vessel					
EQT296	Tank 24102-DB Acidifier FRP Vessel					
EQT297	Tank 24103-L Clarifier Thickener					
EQT298	Tank 24107-DA CaCO3 Reactor					
EQT299	Tank 24107-PA CaCO3 Reactor KO Pot					
EQT300	Tank 24107-PB Precipitator KO Pot					
EQT301	Tank 24111-F Filtrate Surge Vessel					
EQT302	Tank 24116-F WST Surge Vessel					
EQT303	Tank 2401-D Neutralizer Reactor					
EQT304	Tank 2402-D Chlorinator Reactor					
EQT305	Tank 2425-L Clarifier					
EQT316	24720-F - Overflow Tank					
EQT317	24716-F - Acid Storage Tank					
EQT320	5-74 Incinerator and Feed Tanks (EQT264-EQT270)					
FUG006	FUGEO - Fugitives-Environmental Operations					
GRP041	1-92 - Wastewater Solids Treatment and Ancillary Equipment	.8	17	.67	74	185
GRP095	BAS - BAS-BOD Abatement System and Ancillary Equipment					
GRP096	CFS - Cat Feed Surge Tank and Ancillary Equipment					
RLP012	4-87 - MPI Drum Unloading Vent	42.4	500	.5	21	77
TRT001	3-87 - MPI - Solids Shredding and Handling System	5.6	4000	12	8	77

**Fee Information:**

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP097	96	MM BTU/Hr	1533 - Non-Commercial Hazardous Waste Incinerators (Thermal Capacity)

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
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**1-87 - MPI-Tank Truck Loading/Unloading**

- 1 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 2 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 3 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 4 Control VOC emissions using activated carbon adsorption units (at 90% efficiency) that have been approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 5 1,3-Dichloropropylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 6 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with 40 CFR 63 Subpart DD. [LAC 33:III.5109.A]
- 7 Control air emissions by using a transfer system that consists of continuous hardpiping. All joints or seams between the pipe sections are to be permanently or semi-permanently sealed. Subpart DD. [40 CFR 63.689(c)(2)]

**EQT254 2-82 - Lime Storage Silo No. 1**

- 8 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 9 Total suspended particulate <= 14.00 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
 Which Months: All Year Statistical Basis: None specified
- 10 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: None specified
- 11 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 12 Particulate matter (10 microns or less) >= 99 % removal efficiency. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: None specified

**EQT255 2-87 - Multi-Purpose Incinerator**

- 13 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
 Which Months: All Year Statistical Basis: None specified
- 14 1,3-Dichloropropylene <= 0.002 lb/hr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Hourly maximum
- 15 1,3-Dichloropropylene <= 0.002 lb/hr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Hourly average
- 16 1,3-Dichloropropylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 17 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. A hydrosonic scrubber unit is determined as MACT for Class I and II TAPs. [LAC 33:III.5109.A]

**SPECIFIC REQUIREMENTS**

AIID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

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**EQT255      2-87 - Multi-Purpose Incinerator**

- 18 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with 40 CFR 63 Subpart EEE. [LAC 33:III.5109.A]
- 19 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.513.B.6]
- 20 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain carbon monoxide in excess of 100 ppmv (limit only applies during times that the incinerator is combusting waste including residence time after waste feeds are stopped), over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. You must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by 63.1206(b)(7), hydrocarbons do not exceed 10 ppmv during those runs, over an hourly rolling average (monitored continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane. Subpart EEE. [40 CFR 63.1203(e)(5)(i)]. [40 CFR 63.1203(2)(5)(i)]
- 21 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain dioxins and furans in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(1)(i)]
- 22 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain dioxins and furans in excess of 0.40 ng TEQ/dscm corrected to 7 percent oxygen provided that the combustion gas temperature at the inlet to the initial particulate matter control device is 400°F or lower based on average of the test run average temperatures. (For purposes of compliance, operation of a wet particulate control device is presumed to meet the 400°F or lower requirement). Subpart EEE. [40 CFR 63.1203(a)(1)(ii)]. [40 CFR 63.1203(a)(1)(iii)]
- 23 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain mercury in excess of 130 microgram/dscm corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(2)]. [40 CFR 63.1203(a)(2)]
- 24 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain lead and cadmium in excess of 240 microgram/dscm, combined emissions, corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(3)]. [40 CFR 63.1203(a)(3)]
- 25 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain arsenic, beryllium, and chromium in excess of 97 microgram/dscm, combined emissions, corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(4)]. [40 CFR 63.1203(a)(4)]
- 26 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain hydrochloric acid and chlorine gas in excess of 77 ppmv, combined emissions, expressed as hydrochloric acid equivalents, dry basis and corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(6)]. [40 CFR 63.1203(a)(6)]
- 27 Do not discharge or cause combustion gases to be emitted into the atmosphere that contain particulate matter in excess of 34 mg/dscm corrected to 7 percent oxygen. Subpart EEE. [40 CFR 63.1203(a)(7)]. [40 CFR 63.1203(a)(7)]
- 28 Shall comply with all applicable provisions of 40 CFR 63 Subpart EEE - NESHAP for Hazardous Waste Combustors. [40 CFR 63]
- 29 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 30 Total suspended particulate <= 50.75 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified
- 31 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 32 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

**EQT256      2-99 - Bulk Bag Unloader**

- 29 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

- 30 Total suspended particulate <= 50.75 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
- Which Months: All Year Statistical Basis: None specified

- 31 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]

- Which Months: All Year Statistical Basis: None specified
- 32 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

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**EQT256 2-99 - Bulk Bag Unloader**

- 33 Particulate matter (10 microns or less)  $\geq 99.5\%$  removal efficiency. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: None specified

**EQT258 24602-F - Final Wastewater Equalization Tank System**

- 34 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. No additional control is required.  
 [LAC 33:III.5109.A]

**EQT259 24701 - Lime Storage Silo No. 2**

- 35 Prevent particulate matter from becoming airbone by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7. [LAC 33:III.1305]
- 36 Total suspended particulate  $\leq 35.4$  lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]  
 Which Months: All Year Statistical Basis: None specified
- 37 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: None specified
- 38 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 39 Particulate matter (10 microns or less)  $\geq 99.98\%$  removal efficiency. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: None specified
- 40 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 41 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 42 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]  
 Which Months: All Year Statistical Basis: None specified
- 43 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 44 An excursion or exceedance is defined as visible emission. [40 CFR 64.6(c)(2)]
- 45 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. [40 CFR 64.6(c)(4)]
- 46 Schedule for installation, testing or final verification of operational status: ^ [40 CFR 64.6(d)]
- 47 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 48 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

**SPECIFIC REQUIREMENTS**

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**EQT259      24701 - Lime Storage Silo No. 2**

- 49 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 50 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 51 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the <sup>^</sup> emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 52 5 excursions within 6-month period is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 53 Maintain a written Quality Improvement Plan (QIP) and have it available for inspection. Include initially in the plan procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, modify the plan to include procedures for conducting one or more of the actions specified in 40 CFR 64.8(b)(2)(i) through (b)(2)(v), as appropriate. [40 CFR 64.8(b)]
- 54 Develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable. [40 CFR 64.8(c)]
- 55 Submit notification: Notify the DEQ if the period for completing the improvements contained in the Quality Improvement Plan (QIP) exceeds 180 days from the date on which the need to implement the QIP was determined. [40 CFR 64.8(c)]
- 56 Make reasonable changes to the Quality Improvement Plan (QIP) as the DEQ requires, upon any determination pursuant to 40 CFR 64.7(d)(2) subsequent to implementation. [40 CFR 64.8(d)]
- 57 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 58 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 59 Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

**EQT260      2607-F - Gasoline Tank**

- 61 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

**EQT261      3-04 - Caustic Scrubbers 1 and 2 (Standby)**

- 62 pH recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]

**SPECIFIC REQUIREMENTS**

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**EQT261 3-04 - Caustic Scrubbers 1 and 2 (Standby)**

- 63 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]
  - Which Months: All Year Statistical Basis: None specified
- 64 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 65 Flow rate  $\geq 15$  gallons/min. [LAC 33:III.501.C.6]
  - Which Months: All Year Statistical Basis: None specified
- 66 pH monitored by grab sampling daily and percent caustic analysis must be performed daily to insure a percent caustic of greater than 3%. [LAC 33:III.501.C.6]
- 67 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emits Class III TAP only.
- 68 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 69 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 70 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.4(e)]
- 71 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
  - Which Months: All Year Statistical Basis: None specified
- 72 An excursion or exceedance for the flow rate is defined as any operating condition where the scrubber inlet flow rate is less than 15 gallons per minute. An excursion or exceedance for the caustic concentration is defined as any operating condition where the caustic concentration in the scrubbing medium is less than 3 percent. [40 CFR 64.6(c)(2)]
- 73 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. [40 CFR 64.6(c)(4)]
- 74 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 75 Maintain in the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
  - 64.7(b)
- 76 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 77 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 78 35 excursions within a 6-month period is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 79 Maintain a written Quality Improvement Plan (QIP) and have it available for inspection. Include initially in the plan procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, modify the plan to include procedures for conducting one or more of the actions specified in 40 CFR 64.8(b)(2)(i) through (b)(2)(v), as appropriate. [40 CFR 64.8(b)]

**SPECIFIC REQUIREMENTS**

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**EQT261****3-04 - Caustic Scrubbers 1 and 2 (Standby)**

- 80 Develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable. [40 CFR 64.8(c)]
- 81 Submit notification: Notify the DEQ if the period for completing the improvements contained in the Quality Improvement Plan (QIP) exceeds 180 days from the date on which the need to implement the QIP was determined. [40 CFR 64.8(c)]
- 82 Make reasonable changes to the Quality Improvement Plan (QIP) as the DEQ requires, upon any determination pursuant to 40 CFR 64.7(d)(2) subsequent to implementation. [40 CFR 64.8(d)]
- 83 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 84 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 85 Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 86 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

**EQT262****4-78 - Carbon Regeneration Furnace**

- 87 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- 88 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 89 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- 90 Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- 91 Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**SPECIFIC REQUIREMENTS****AI ID:** 2367 - Syngenta Crop Protection Inc - St Gabriel Plant**Activity Number:** PER20070004**Permit Number:** 2718-V2**Air - Title V Regular Permit Minor Mod****EQT262 478 - Carbon Regeneration Furnace**

- 92 Permittee shall comply with the emission limits of the permit and LAC 33:III.5109.A ensuring 99% VOC DRE and HCl DRE:
- |                  |            |      |
|------------------|------------|------|
| Carbon Feed Rate | 2000 lb/hr | Max. |
| Afterburner Temp | 1600 deg F | Min. |

**Scrubber:**

Total Caustic Water Flow

30 gpm

Min.

6.5 hourly avg.

Min.

pH

Stack Gas:	100 ppm	Max. (hourly Avg.)
CO	2%	Min
O2 dry		

**Stack Gas:**

CO

O2 dry

Min.

Max. (hourly Avg.)

Min

Continuous emission monitors (CEM) shall be installed, maintained, and calibrated to provide continuous record of CO and O<sub>2</sub> concentration in the Stack gas. These analyzers shall comply with the applicable provisions of performance specification 3 & 4 of 40 CFR 60, Appendix B. In lieu of a continuous CO CEM, permittee may develop an operating curve relating O<sub>2</sub>, afterburner temperature, and feed rate to CO concentration and operate within parameters established that will result in compliance with CO concentration limits. Permittee shall perform a compliance test at maximum operation conditions for HCl, CO, O<sub>2</sub>, and THC

[LAC 33:III.501.C.6]

**EQT306 2011JBD - Firewater Pump Engine**

- 93 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT307 2214LAM - Firewater Pump Engine**

- 94 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT308 2214LBM - Firewater Pump Engine**

- 95 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT309 2214LCM - Firewater Pump Engine**

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**EQT309 2214LCM - Firewater Pump Engine**

96 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT310 25001LAM - Firewater Pump Engine**

97 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT311 2493JD - Firewater Pump Engine**

98 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT312 2604JM - Engine for Maintenance Pump**

99 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT313 2606JCD - River Lift Pump Engine**

100 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT314 4666LM - Engine for Emergency Generator**

101 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT315 2401-L - AWT Standby Emergency Generator**

102 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

**EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)**

103 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

**SPECIFIC REQUIREMENTS**

All ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**EQT320 5-74 Incinerator and Feed Tanks (EQT264-EQT270)**

- 104 VOC, Total  $\geq$  90 % removal efficiency or VOC, Total  $\leq$  50 ppmv (whichever is less stringent) or a closed system which prevents the flow of VOC vapors from the vent during normal operation. [LAC 33:III.2153.B]  
 Which Months: All Year Statistical Basis: None specified
- 105 Replace the carbon with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval determined by the maximum design flow rate and the VOC concentration in the gas stream vented to the carbon adsorber, as an alternative to conducting monitoring. [LAC 33:III.2153.D.3.d]
- 106 VOC, Total monitored by technically sound method daily. Equip the monitoring device with a continuous recorder, and monitor the VOC concentration of the exhaust gas stream to determine if breakthrough has occurred. [LAC 33:III.2153.D.3.d]
- Which Months: All Year Statistical Basis: None specified
- 107 Determine compliance by applying the test methods specified in LAC 33:III.2153.E.1 through E.10, as appropriate. [LAC 33:III.2153.E]
- 108 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records, for at least five years, of the items listed in LAC 33:III.2153.F.1 through F.4, and make available upon request to representatives of DEQ, the U.S. Environmental Protection Agency, or any local air pollution control agency having jurisdiction in the area. [LAC 33:III.2153.F]
- 109 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 110 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 111 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 112 1,3-Dichloropropylene  $\leq$  0.002 lb/hr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Hourly maximum
- 113 1,3-Dichloropropylene  $\leq$  0.002 lb/hr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Hourly average
- 114 1,3-Dichloropropylene  $\leq$  0.001 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 115 1,1,1,2-Tetrachloroethane  $\leq$  0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: Phases: Statistical Basis: Annual maximum
- 116 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Control VOC/TAP emissions with closed vent system venting to 95% efficient carbon adsorption system determined as MACT. [LAC 33:III.5109.A]
- 117 VOC, Total  $\geq$  95 % reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]  
 Which Months: All Year Statistical Basis: None specified
- 118 Equip with a closed vent system and control device. Design the closed vent system to collect all VOC vapors and gases discharged from the storage vessel and operate with no detectable emissions. Subpart Kb. [40 CFR 60.112b(a)(3)]
- 119 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]
- FUG006 FUGEO - Fugitives-Environmental Operations**
- 120 n-Hexane  $\leq$  0.005 lb/hr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual average
- 121 1,3-Dichloropropylene  $\leq$  0.02 lb/hr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Hourly average

**SPECIFIC REQUIREMENTS**

**All ID:** 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
**Activity Number:** PER20070004  
**Permit Number:** 2718-V2  
**Air • Title V Regular Permit Minor Mod**

**FUG006 FUGEO - Fugitives-Environmental Operations**

- 122 1,3-Dichloropropylene <= 0.02 lb/hr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Hourly maximum
- 123 1,3-Dichloropropylene <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 124 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with 40 CFR 63 Subpart DD. [LAC 33:III.5109.A]
- 125 Mark each piece of equipment so that it can be distinguished readily from pieces of equipment not subject to 40 CFR 61 Subpart V. Subpart V. [40 CFR 61.242-1(d)]
- 126 Pumps in VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as specified in 40 CFR 61.242-1(c) and 40 CFR 61.242-2(d), (e) and (f). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(c). Subpart V. [40 CFR 61.242-2(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 127 Pumps in VHAP service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(c). Subpart V. [40 CFR 61.242-2(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 128 Pumps: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-2(c)]
- 129 Pumps (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 61.242-11; or equip with a system that purges the barrier fluid into a process stream with zero VHAP emissions to the atmosphere. Subpart V. [40 CFR 61.242-2(d)(1)]
- 130 Pumps (dual mechanical seal system): Ensure that the barrier fluid is not in VHAP service and, if the pump is covered by standards under 40 CFR Part 60, not in VOC service. Subpart V. [40 CFR 61.242-2(d)(2)]
- 131 Pumps (dual mechanical seal system): Equip with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart V. [40 CFR 61.242-2(d)(3)]
- 132 Pumps (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 61.245 to determine the presence of VOC and VHAP in the barrier fluid. If the monitor reading (taking into account any background readings) indicates the presence of VHAP, a leak is detected. If an instrument reading of 10,000 ppm or greater (total VOC) is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 61.242-2(d)(6). Subpart V. [40 CFR 61.242-2(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- 133 Pumps (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart V. [40 CFR 61.242-2(d)(6)(i)]
- 134 Pumps (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-2(d)(6)(ii)]
- 135 Pumps (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 61.242-2(d)(6)(i), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-2(d)(6). Subpart V. [40 CFR 61.242-2(d)(6)(iii)]
- Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

All ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
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 Air - Title V Regular Permit Minor Mod

**FUG006 FUGEO - Fugitives-Environmental Operations**

- 136 Pumps (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart V. [40 CFR 61.242-2(e)(3)]  
 Which Months: All Year Statistical Basis: None specified
- 137 Pumps (unsafe-to-monitor): Demonstrate that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 61.242-2(a). Subpart V. [40 CFR 61.242-2(g)(1)]
- 138 Pumps (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair according to the procedures in 40 CFR 61.242-2(c) if a leak is detected. Subpart V. [40 CFR 61.242-2(g)(2)]  
 Which Months: All Year Statistical Basis: None specified
- 139 Pumps (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Subpart V. [40 CFR 61.242-2(h)]  
 Which Months: All Year Statistical Basis: None specified
- 140 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to atmosphere, except as provided in 40 CFR 61.242-1(c) and 40 CFR 61.242-3(h) and (i). Subpart V. [40 CFR 61.242-3(a)]
- 141 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 61.242-11; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere. Subpart V. [40 CFR 61.242-3(b)]
- 142 Compressors: Ensure that the barrier fluid is not in VHAP service and, if the compressor is covered by standards under 40 CFR part 60, is not in VOC service. Subpart V. [40 CFR 61.242-3(c)]
- 143 Compressors: Equip each barrier fluid system as described in 40 CFR 61.242-3(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart V. [40 CFR 61.242-3(d)]
- 144 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart V. [40 CFR 61.242-3(e)(2)]
- 145 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-3(g)]
- 146 Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart V. [40 CFR 61.242-3(i)(2)]  
 Which Months: All Year Statistical Basis: None specified
- 147 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 61.242-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-3(g). Subpart V. [40 CFR 61.242-3]
- 148 Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as measured by the method in 40 CFR 61.245(c).  
 Subpart V. [40 CFR 61.242-4(a)]  
 Which Months: All Year Statistical Basis: None specified
- 149 Pressure relief device in gas/vapor VHAP service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-4(b)(1)]

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**FUG006 FUGEO - Fugitives Environmental Operations**

- 150 Pressure relief device in gas/vapor VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) of pressure release to confirm the condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c). Subpart V. [40 CFR 61.242-4(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 151 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-4(g)(2)]
- 152 Sampling connecting systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 61.242-1(c). Operate the system as specified in 40 CFR 61.242-5(b). Subpart V. [40 CFR 61.242-5]
- 153 Open-ended valves or lines: Equip with a cap, blind flange, plug or a second valve, except as provided in 40 CFR 61.242-1(c). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart V. [40 CFR 61.242-6]
- 154 Valves in VHAP service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly except as specified. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 61.242-7(d). Permittees may elect to comply with the alternate standards for valves in 40 CFR 61.242-7(c), 40 CFR 61.243-1 or 40 CFR 61.243-2 (skip period provisions). Subpart V. [40 CFR 61.242-7(a)]
- Which Months: All Year Statistical Basis: None specified
- 155 Valves: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 61.242-10. Subpart V. [40 CFR 61.242-7(f)]
- 156 Valves (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ, to determine compliance with 40 CFR 61.242-7(f)(2). Subpart V. [40 CFR 61.242-7(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 157 Valves (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 61.242-7(a). Subpart V. [40 CFR 61.242-7(g)(1)]
- 158 Valves (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times. Subpart V. [40 CFR 61.242-7(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- 159 Valves (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Subpart V. [40 CFR 61.242-7(h)(1)]
- 160 Valves (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valve at least once per calendar year. Subpart V. [40 CFR 61.242-7(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- 161 Pressure relief devices in liquid service and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if evidence of a potential leak is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 61.242-8(b) through (d), OR eliminate the visual, audible, olfactory or other indication of a potential leak, except as specified in 40 CFR 61.242-1(c). If a reading of 10,000 ppm or greater is recorded, a leak is detected, initiate repair provisions specified in 40 CFR 61.242-8(c). Subpart V. [40 CFR 61.242-8(a)]
- Which Months: All Year Statistical Basis: None specified
- 162 Pressure relief devices in liquid service and connectors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 61.242-8(c)

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**FUG006 FUGEO - Fugitives-Environmental Operations**

- 163 Surge control vessels and bottoms receivers: Equip with a closed-vent system capable of capturing and transporting any leakage from the vessel back to the process or to a control device as described in 40 CFR 61.242-11 except as specified in 40 CFR 61.242-1(c), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 61 Subpart V Table 1 or Table 2. Subpart V. [40 CFR 61.242-9]
- 164 Comply with the test methods and procedures requirements provided in 40 CFR 61.245. Subpart V. [40 CFR 61.245(a)]
- 165 Attach a weatherproof and readily visible identification, marked with the equipment identification number, to a leaking component detected as specified in 40 CFR 61.242-2, 40 CFR 61.242-3, 40 CFR 61.242-7, 40 CFR 61.242-8, and 40 CFR 61.135. The identification may be removed after it has been monitored for 2 successive months as specified in 40 CFR 61.242-7(c) and no leak has been detected during those 2 months. The identification on equipment, except on a valve, may be removed after it has been repaired. Subpart V. [40 CFR 61.246(b)]
- 166 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 61.246(b) through (j).
- 167 Submit report: Due semiannually, starting 6 months after the initial report required in 40 CFR 61.247(a). Include the information specified in 40 CFR 61.247(b)(1) through (b)(5). Subpart V. [40 CFR 61.247(b)]
- 168 Shall control the HAP emissions emitted from equipment leaks in accordance with either 40 CFR 61 Subpart V or 40 CFR 63 Subpart H. Syngenta complies with this regulation via compliance with 40 CFR 61 Subpart V. [40 CFR 61.Subpart(V)]

**GRP041 1-92 - Wastewater Solids Treatment and Ancillary Equipment**

- 169 Permittee shall limit the 11% HCl usage in the WST Acidifier to 10,000 lbs/hr and maintain scrubber efficiency of 90%. Records of hourly HCl usage and scrubber flow shall be maintained on site and available for inspection. [LAC 33:III.501C.6]
- 170 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

**GRP095 BAS - BAS-BOD Abatement System and Ancillary Equipment**

- 171 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. No additional control is required. [LAC 33:III.5109.A]
- 172 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emits Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

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- 173 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 174 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

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- 175 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 176 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 177 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 178 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 179 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A-1-5. [LAC 33:III.2113.A]
- 180 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.2119]
- 181 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.D are prohibited. [LAC 33:III.2901.D]
- 182 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 183 Submit permit application. Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III. Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services, Air Permits Division, as required in accordance with the procedures in LAC 33:III. Chapter 5. [LAC 33:III.501.C.1]
- 184 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylen, o-Xylene. [LAC 33:III.501.C.6]
- 185 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. [LAC 33:III.501.C.6]
- 186 Sulfur dioxide <= 17.74 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 187 1,1,1-Trichloroethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 188 1,1,2,2-Tetrachloroethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 189 1,2-Dibromoethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 190 1,2-Dichloroethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 191 1,2-Dichloropropane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

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192 1,3-Butadiene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

193 1,4-Dichlorobenzene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

194 2,4-Dinitrotoluene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

195 2,6-Dinitrotoluene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

196 2-nitro-Propane &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

197 Acetaldehyde &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

198 Acetonitrile &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

199 Acrolein &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

200 Acrylamide &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

201 Acrylic acid &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

202 Allyl chloride &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

203 Aniline &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

204 Biphenyl &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

205 Carbon disulfide &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

206 Carbon tetrachloride &lt;= 0.035 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

207 Carbonyl sulfide &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

208 Chloroethane &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

209 Chloroprene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

210 Cresol &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

211 Cumene &lt;= 0.015 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

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- 212 Dibutyl phthalate <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 213 Epichlorohydrin <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 214 Ethyl Acrylate <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 215 Ethylene oxide <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 216 Formaldehyde <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 217 Glycol ethers (Table 51.1) <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 218 Hexachlorobenzene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 219 Hexachlorobutadiene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 220 Hydrazine <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 221 Hexachloroethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 222 Hydrogen cyanide <= 0.018 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 223 Hydrogen sulfide <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 224 Maleic anhydride <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 225 Methyl ethyl ketone <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 227 Naphthalene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 226 Methyl isobutyl ketone <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 228 Nitrobenzene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 229 Phenol <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 230 Phosgene <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum
- 231 Phthalic Anhydride <= 0.015 tons/yr. [LAC 33:III.501.C.6]
  - Which Months: Phases: Statistical Basis: Annual maximum

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- 232 Polynuclear Aromatic Hydrocarbons <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 233 Propionaldehyde <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 234 Propylene oxide <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 235 Pyridine <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 236 Styrene <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 237 Tetrachloroethylene <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 238 Toluene <= 11.15 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 239 Toluene-2,4-diisocyanate <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 240 Trichloroethylene <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 241 Vinyl acetate <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 242 Vinyl chloride <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 243 Vinylidene chloride <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 244 n-butyl alcohol <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 245 Acrylonitrile <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 246 Diaminotoluene (mixed isomers) <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 247 1,1,2-Trichloroethane <= 0.024 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum
- 248 Ammonia <= 1.085 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 249 Hydrofluoric acid <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 250 n-Hexane <= 0.029 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 251 1,3-Dichloropropylene <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum

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- 252 1,4-Dioxane <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 253 2,2-dichlorodiethylether <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 254 Chloroethane <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 255 Toluene-2,6-Diisocyanate <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 256 Xylene (mixed isomers) <= 0.035 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 257 Particulate matter (10 microns or less) <= 10.82 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum  
 258 Nitrogen oxides <= 106.14 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum  
 259 Carbon monoxide <= 36.16 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum  
 260 VOC, Total <= 31.47 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: All Year Statistical Basis: Annual maximum  
 261 Antimony (and compounds) <= 0.009 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 262 Arsenic (and compounds) <= 0.006 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 263 Barium (and compounds) <= 0.061 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 264 Benzene <= 0.015 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 265 Beryllium (Table 51.1) <= 0.006 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 266 Cadmium (and compounds) <= 0.037 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 267 Chlorine <= 0.440 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 268 Chlorobenzene <= 0.152 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 269 Chloroform <= 0.109 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 270 Chromium VI (and compounds) <= 0.006 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum  
 271 Copper (and compounds) <= 0.025 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum

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- 272 Dichromomethane <= 0.055 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 273 Ethylene glycol <= 0.398 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 274 Hydrochloric acid <= 5.94 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 275 Lead compounds <= 0.037 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 276 Manganese (and compounds) <= 0.141 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 277 Mercury (and compounds) <= 0.032 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 278 Methanol <= 9.303 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 279 Nickel (and compounds) <= 0.031 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 280 Selenium (and compounds) <= 0.007 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 281 Silver <= 0.067 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 282 Thallium <= 0.014 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 283 Zinc (and compounds) <= 0.012 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 284 Cyanide compounds <= 0.00000007 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 285 Ethyl benzene <= 0.034 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 286 Methyl methacrylate <= 0.005 tons/yr. [LAC 33:III.501.C.6]  
 Which Months: Phases: Statistical Basis: Annual maximum
- 287 Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.a]
- 288 Any nonmajor (area) source of hazardous air pollutants required to obtain an operating permit pursuant to regulations promulgated under section 112 of the federal Clean Air Act is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.b]

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- 289 No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. [LAC 33:III.507.B.2]
- 290 Any Part 70 source for which construction or operation has begun prior to the effective date of LAC 33:III.507 shall submit an application for an initial Part 70 permit. Permit applications shall be prepared in accordance with LAC 33:III.517 and with forms and guidance provided by DEQ, and shall be submitted no later than one year after the effective date of the Louisiana Part 70 program. [LAC 33:III.507.C.1]
- 291 Any source that becomes subject to the requirements of LAC 33:III.507 after the effective date of the Louisiana Part 70 program due to regulations promulgated by the Environmental Protection Agency or by the Department of Environmental Quality shall submit an application to the Office of Environmental Services, Air Permits Division, in accordance with the requirements established by the applicable regulation. In no case shall the required application be submitted later than one year from the date on which the source first becomes subject to LAC 33:III.507. [LAC 33:III.507.C.3]
- 292 Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration. [LAC 33:III.507.E.4]
- 293 No major stationary source or major modification to which the requirements of this Part apply shall begin actual construction without a permit issued under this Section. [LAC 33:III.509.I.1]
- 294 A major stationary source or major modification shall meet each applicable emissions limitation under the Louisiana State Implementation Plan and each applicable emissions standard and standard of performance under the Louisiana New Source Performance Standards (LNSPS) and Louisiana Emission Standards for Hazardous Air Pollutants (LESHAP) and Sections 111 and 112 of the Clean Air Act. [LAC 33:III.509.J.1]
- 295 A new major stationary source shall apply best available control technology for each pollutant subject to regulation under this Section that it would have the potential to emit in significant amounts. [LAC 33:III.509.J.2]
- 296 A major modification shall apply best available control technology for each pollutant subject to regulation under this Section which would result in a significant net emissions increase at the source. This requirement applies to each proposed emissions unit at which a net emissions increase in the pollutant would occur as a result of a physical change or change in the method of operation in the unit. [LAC 33:III.509.J.3]
- 297 For phased construction projects, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of best available control technology for the source. [LAC 33:III.509.J.4]
- 298 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 299 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 300 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 301 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

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- 302 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 303 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 304 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 305 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923. [LAC 33:III.5107.B.2]
- 306 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.5107.B.3]
- 307 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 308 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 309 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 310 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 311 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 312 Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III. Chapter 5. [LAC 33:III.511]

**SPECIFIC REQUIREMENTS****AIR ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant****Activity Number: PER20070004****Permit Number: 2718-V2****Air - Title V Regular Permit Minor Mod****GRP097 Environmental Operations**

- 313 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 314 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 315 Apply for a permit in accordance with LAC 33:III.5111.B, for any existing major source which is operating without a Louisiana Air Permit, or which is not fully permitted, or for any minor source that was once a major source. [LAC 33:III.5111.A.4]
- 316 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 317 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 318 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 319 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 320 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 321 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 322 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 323 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 324 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 325 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 326 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 327 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluent is from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 328 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 329 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 330 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 331 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 332 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]

**SPECIFIC REQUIREMENTS**

**AI ID:** 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
**Activity Number:** PER20070004  
**Permit Number:** 2718-V2  
**Air - Title V Regular Permit Minor Mod**

**GRP097****Environmental Operations**

- 333 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 334 Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority. [LAC 33:III.517.A.1]
- 335 Submit permit application: Due by the date established for submittal in accordance with LAC 33:III.507.C. The permit application is for an initial permit to be issued in accordance with LAC 33:III.507. Provide a copy of each permit application pertaining to a major Part 70 source to EPA at the time of application submittal to the permitting authority. [LAC 33:III.517.A.2]
- 336 Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete. [LAC 33:III.517.B.1]
- 337 Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit. [LAC 33:III.517.C]
- 338 Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18. [LAC 33:III.517.D]
- 339 In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8. [LAC 33:III.517.E]
- 340 Submit initial emissions inventory report: Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:III.5307.A.1 through 7. [LAC 33:III.5307.A]
- 341 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 342 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 343 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 344 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 345 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 346 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 347 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 348 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 349 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 9, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]

**SPECIFIC REQUIREMENTS**

**AI ID:** 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
**Activity Number:** PER20070004  
**Permit Number:** 2718-V2  
**Air - Title V Regular Permit Minor Mod**

**GRP097 Environmental Operations**

- 350 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33.III.5911.C]
- 351 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33.III.905]
- 352 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33.III.917.A]
- 353 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33.III.919.A-D. [LAC 33.III.919.D]
- 354 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33.I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33.I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33.III.927]
- 355 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33.III.929.A]
- 356 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 357 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 358 Comply with all applicable monitoring and compliance provisions in 63.1206. Subpart EEE. [40 CFR 63.1206]
- 359 Comply with all applicable performance testing requirements in 63.1207. Subpart EEE. [40 CFR 63.1207]
- 360 Comply with all applicable monitoring requirements in 63.1209. Subpart EEE. [40 CFR 63.1209]
- 361 Comply with all applicable notification requirements in 63.1210. Subpart EEE. [40 CFR 63.1210]
- 362 Comply with all applicable recordkeeping and reporting requirements in 63.1211. Subpart EEE. [40 CFR 63.1211]
- 363 All affect facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 1 of 40 CFR 63 Subpart EEE. [40 CFR 63]
- 364 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 365 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(ii)(A)]
- 366 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(ii)(B)]
- 367 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 368 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

**SPECIFIC REQUIREMENTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**RLP012      4-87 - MPI-Drum Unloading Vent**

- 369 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 370 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 371 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 372 Control VOC emissions using activated carbon adsorption units (at 90% efficiency) that have been approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 373 1,3-Dichloropropylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year    Statistical Basis: Annual maximum
- 374 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Control VOC/TAP emissions with closed vent system venting to 95% efficient carbon adsorption system determined as MACT. [LAC 33:III.5109.A]

**TRU001      3-87 - MPI - Solids Shredding and Handling System**

- 375 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 376 Filter vents: Visible emissions monitored by visual inspection/determination daily. [LAC 33:III.501.C.6]
- Which Months: All Year    Statistical Basis: None specified
- 377 Filter vents: Visible emissions recordkeeping by electronic or hard copy daily. Keep records of visual checks on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 378 Utilize a monitoring system approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 379 Cease using equipment when breakthrough occurs and do not resume use until the carbon adsorption unit has been regenerated or replaced. [LAC 33:III.501.C.6]
- 380 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of breakthrough. Keep records of the number of breakthroughs on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. [LAC 33:III.501.C.6]
- 381 Particulate matter (10 microns or less) >= 90 % removal efficiency. [LAC 33:III.501.C.6]
- Which Months: All Year    Statistical Basis: None specified
- 382 Control VOC emissions using activated carbon adsorption units (at 90% efficiency) that have been approved by the Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 383 1,3-Dichloropropylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year    Statistical Basis: Annual maximum
- 384 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Control VOC/TAP emissions in vent stream by 95% with a carbon adsorption system and particulate matter with 99% efficient bag filter. [LAC 33:III.5109.A]

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004

Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**All phases**

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87													0.23	0.40	1.0
EQT 254 2-82	0.055	0.055	0.06												
EQT 255 2-87	2.0	6.2	8.8	3.9	100.6	16.9	21.5	245.4	94.1	7.5	11.2	32.8	1.19	10.07	6.65
EQT 256 2-99	0.06	0.06	0.01										0.001	0.01	0.004
EQT 257 2447-F													0.02	0.54	0.07
EQT 258 24602-F															
EQT 259 24701	0.03	0.04	0.11												
EQT 260 2607-F													0.16	0.16	0.71
EQT 262 4-78	0.17	0.38	0.71	0.17	0.24	0.71	2.4	6.2	10.1	0.7	3.49	2.94	0.22	0.44	0.96
EQT 306 2011-BD	0.62	0.62	0.01	0.58	0.58	0.01	8.82	8.82	0.11	1.90	1.90	0.02	0.72	0.72	0.01
EQT 307 22141-AM	0.74	0.74	0.01	0.70	0.70	0.01	10.58	10.58	0.14	2.28	2.28	0.03	0.86	0.86	0.01
EQT 308 22141-BM	0.74	0.74	0.01	0.70	0.70	0.01	10.58	10.58	0.14	2.28	2.28	0.03	0.86	0.86	0.01
EQT 309 22141-CM	0.74	0.74	0.01	0.70	0.70	0.01	10.58	10.58	0.14	2.28	2.28	0.03	0.86	0.86	0.01
EQT 310 25001-LAM	0.99	0.99	0.01	0.93	0.93	0.01	14.11	14.11	0.18	3.04	3.04	0.04	1.15	1.15	0.01
EQT 311 2493-D	0.47	0.47	0.01	0.44	0.44	0.01	6.62	6.62	0.09	1.43	1.43	0.02	0.54	0.54	0.01
EQT 312 2604-JM	0.25	0.25	0.0001	0.23	0.23	0.001	3.53	3.53	0.05	0.76	0.76	0.01	0.29	0.29	0.001
EQT 313 2606-CD	0.68	0.68	0.06	0.64	0.64	0.06	9.70	9.70	0.86	2.09	2.09	0.19	0.79	0.79	0.07
EQT 314 4666LM	1.02	1.02	0.01	0.96	0.96	0.01	14.55	14.55	0.19	3.14	3.14	0.04	1.19	1.19	0.02

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 315 2401-L	0.24	0.24	0.003	0.22	0.22	0.003	3.32	3.32	0.04	0.71	0.71	0.01	0.27	0.27	0.003
EQT 320 5-74													0.26	2.11	1.16
FUG 006 FUGEO													2.5	5	10.84
GRP 095 BAS													0.43	4.04	1.89
GRP 096 crs													1.38	10.12	6.03
RLP 012 481													0.23	0.3	1.0
TRT 001 397	0.23	0.375	1.0										0.23	0.375	1.0

**Note:** Emission rates in bold are from alternate scenarios and are not included in permitted totals**Permit Phase Totals:**

PM10: 10.82 tons/yr  
 SO<sub>2</sub>: 17.74 tons/yr  
 NOx: 106.14 tons/yr  
 CO: 36.16 tons/yr  
 VOC: 31.47 tons/yr

**Emission rates Notes:**

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

All ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

	<b>1,1,1-Trichloroethane</b>	<b>1,1,2,2-Tetrachloroethane</b>			<b>1,1,2-Trichloroethane</b>			<b>1,2-Dibromoethane</b>			<b>1,2-Dichloroethane</b>				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 258 24602-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0002	0.0002	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

1,2-Dichloropropane			1,3-Butadiene			1,4-Dichlorobenzene			1,4-Dioxane			2,2'-dichlorodiethylether			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-47	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.002	0.002	0.001	0.002	0.002	0.001
EQT 255 2-47	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.002	0.002	0.001	0.002	0.002	0.001
EQT 258 24902-f															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.002	0.002	0.001	0.002	0.002	0.001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.02	0.02	0.01	0.02	0.02	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.002	0.002	0.001	0.002	0.002	0.001
TRT 001 3-87	0.002	0.002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.002	0.002	0.001	0.002	0.002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

		2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-nitro-Propane			Acetaldehyde			Acetonitrile		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
ARE 010 1-87	.0002	.0002	.001	.0002	.0002	.001	.0002	.0002	.0002	.0002	.0002	.0002	.0002	.0002	.0002	.0001
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	
EQT 258 24802-F																
EQT 261 3-04																
EQT 262 4-78																
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0001
FUG 006	0.002	0.002	0.01	.002	.002	.01	.002	.002	.002	.002	.002	.002	.002	.002	.002	.001
FUGEO																
GRP 041 1-92																
GRP 095 BAS																
GRP 096 CFS																
RLP 012 4-87	.0002	.0002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

Acrolein		Acrylamide		Acrylic acid		Acrylonitrile		Allyl chloride	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002
EQT 258 24602-F									
EQT 261 3-84									
EQT 262 4-78									
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.0003
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.002
GRP 041 1-92									
GRP 095 BAS									
GRP 096 cfs									
RULP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

Ammonia		Aniline		Antimony (and compounds)			Arsenic (and compounds)			Barium (and compounds)		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-47	0.0002	0.0002	0.001	0.0002	0.0002	0.001						
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.002	0.015	0.009	0.001	0.015	0.006
EQT 258 24602-F	0.01	0.01	0.01									
EQT 261 3-04												
EQT 262 4-78												
EQT 320 5-14	0.0003	0.0003	0.001	0.0003	0.0003	0.001						
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.003	0.002	0.002	0.001			
GRP 041 1-92												
GRP 095 B4S	0.24	1.14	1.06									
GRP 096 CFS												
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.001			
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.001			

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

Benzene			Beryllium (Table 51.1)			Biphenyl			Cadmium (and compounds)			Carbon disulfide			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001				0.0002	0.0002	0.001				0.0002	0.0002	0.001
EQT 255 2-87	0.0003	0.0003	0.001	0.001	0.015	0.006	0.0002	0.0002	0.001	0.009	0.103	0.037	0.0002	0.0002	0.001
EQT 258 24802-F															
EQT 261 3-04															
EQT 262 4-78	0.0004	0.0001	0.0002												
EQT 320 5-74	0.0003	0.0003	0.001				0.0003	0.0003	0.001				0.0003	0.0003	0.001
FUG 006 FUGEO	0.002	0.002	0.01				0.002	0.002	0.01				0.002	0.002	0.01
GRP 041 1-92															
GRP 095 eAS															
GRP 096 cFS															
RLP 012 4-87	0.0002	0.0002	0.001				0.0002	0.0002	0.001				0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001				0.0002	0.0002	0.001				0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

Carbon tetrachloride							Carbonyl sulfide							Chlorine							Chlorobenzene							Chloroethane						
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year				
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0001							0.002	0.002	0.01	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001												
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0001							0.0005	0.0005	0.002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001												
EQT 258 24602-f 3-04																																		
EQT 261 4-78																																		
EQT 262 5-74																																		
EQT 320 FUG 006 E-GEO	0.0003	0.0003	0.001	0.0003	0.0003	0.0001							0.003	0.003	0.01	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0001												
GRP 041 1-92	0.0002	0.0002	0.01	0.0002	0.0002	0.01							0.025	0.025	0.11	0.002	0.002	0.002	0.002	0.002	0.002	0.001												
GRP 095 BAS GRP 096 crs	0.004	0.82	0.02							0.1	0.15	0.44																						
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0001							0.002	0.002	0.01	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001												
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0001							0.002	0.002	0.01	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001												

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

Chloroform				Chloroprene				Chromium VI (and compounds)				Copper (and compounds)				Cresol	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
ARE 010 1-87	0.0004	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0006	0.0006	0.0006	0.036	0.036	0.025	0.0002	0.0002
EQT 255 2-87	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.001	0.015	0.015	0.015	0.036	0.036	0.025	0.0002	0.0002
EQT 258 24602-F	0.013	0.12	0.06														
EQT 261 3-84																	
EQT 262 4-78																	
EQT 320 5-74	0.0005	0.0005	0.0005	0.0002	0.0003	0.0003	0.0003	0.001	0.001				0.0003	0.0003	0.0003	0.0003	0.0003
FUG 006 FUGEO	0.005	0.005	0.005	0.02	0.002	0.002	0.002	0.01	0.01				0.002	0.002	0.002	0.002	0.002
GRP 041 1-92																	
GRP 095 BAS	0.005	0.2	0.02														
GRP 096 CRS																	
RLP 012 4-87	0.0004	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.001	0.001				0.0002	0.0002	0.0002	0.0002	0.0002
TRT 001 3-87	0.0004	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.001	0.001				0.0002	0.0002	0.0002	0.0002	0.0002

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

All ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

Subject Item	Cumene			Cyanide compounds			Diaminotoluene (mixed isomers)			Dibutyl phthalate			Dichloromethane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001				0.002	0.002	.001	0.002	0.002	0.001	.002	.002	.001
EQT 255 2-87	0.0002	0.0002	0.001				0.002	0.002	.001	0.002	0.002	0.001	.002	.002	.001
EQT 258 24802-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.001				0.002	0.002	.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001
FUG 006 FUGEO	0.002	0.002	0.01				0.02	0.02	.001	0.002	0.002	0.001	0.002	0.002	0.001
GRP 041 1-92															
GRP 095 BAS				.0000002	.000004	.0000007							.01	.01	.04
GRP 096 CFS															
RLP 012 4-87	0.0002	0.0002	0.001				0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001				0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

**All phases**

		Epichlorohydrin			Ethyl Acrylate			Ethylbenzene			Ethylene glycol			Ethylene oxide		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.006	0.006	0.025	0.0002	0.0002	0.0001
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.005	0.007	0.02	0.005	0.005	0.023	0.0002	0.0002	0.0001
EQT 258 24602-F																
EQT 261 3-04																
EQT 262 4-78																
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.007	0.007	0.03	0.0003	0.0003	0.0001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.002	0.01	0.002	0.002	0.01	0.062	0.062	0.27	0.002	0.002	0.01
GRP 041 1-92																
GRP 095 BAS																
GRP 096 CFS																
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.006	0.006	0.025	0.0002	0.0002	0.0001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.006	0.006	0.025	0.0002	0.0002	0.0001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

Formaldehyde			Glycol ethers (Table 51.1)			Hexachlorobenzene			Hexachlorobutadiene			Hexachloroethane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	.0002	.0002	.001	0.0002	0.0002	0.001
EQT 255 2-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	.0002	.0002	.001	0.0002	0.0002	0.001
EQT 258 24602-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	.0002	.0002	.001	0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Air - Title V Regular Permit Minor Mod

**All phases**

Hydrazine			Hydrochloric acid			Hydrofluoric acid			Hydrogen cyanide			Hydrogen sulfide			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001
EQT 255 2-87	0.0002	0.0002	0.001	0.9	10.7	3.8	0.0002	0.0002	0.001	0.0008	0.0012	0.004	0.0002	0.0002	0.0001
EQT 258 24602-F															
EQT 261 3-04		.01		.02	.03										
EQT 262 4-18		0.48	1.00	2.1											
EQT 320 5-14	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.0001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

Lead compounds			Maleic anhydride			Manganese (and compounds)			Mercury (and compounds)			Methanol		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
ARE 010 1-87				0.0002	0.0002	0.001							0.14	0.14
EQT 255 2-87	0.009	0.103	0.037	0.0002	0.0002	0.001	0.032	0.284	0.141	0.007	0.086	0.032	0.055	0.243
EQT 258 24602-F														
EQT 261 3-94														
EQT 262 4-78													0.01	0.03
EQT 320 5-74				0.0003	0.0003	0.001							0.16	0.16
FUG 006 E-GEO				0.002	0.002	0.01							1.473	1.5
GRP 041 1-92														
GRP 095 BAS														
GRP 096 CRS														
RLP 012 4-87				0.0002	0.0002	0.001							0.14	0.14
TRT 001 3-87				0.0002	0.0002	0.001							0.14	0.14

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant  
 Activity Number: PER20070004  
 Permit Number: 2718-V2  
 Air - Title V Regular Permit Minor Mod

**All phases**

		Methyl chloride			Methyl ethyl ketone			Methyl Isobutyl Ketone			Methyl methacrylate			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
ARE 010 1-87	0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	
EQT 255 2-87	0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	
EQT 258 24602-F																
EQT 261 3-84																
EQT 262 4-78																
EQT 320 5-74	0.002	0.002	.001	0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0001	
FUG 006 FUGEO	0.02	0.02	.01	.002	.002	.01	.002	.002	.002	.01						0.002
GRP 041 1-92																
GRP 095 BAS																
GRP 096 crs																
RLP 012 4-87	0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	
TRT 001 3-87	0.002	0.002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

Activity Number: PER20070004

Permit Number: 2718-V2

Air - Title V Regular Permit Minor Mod

**All phases**

Nickel (and compounds)			Nitrobenzene			Phenol			Phosgene			Phthalic Anhydride			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87			0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001
EQT 255 2-87	0.007	0.035	0.031	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001
EQT 258 24602-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74			0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.0003	0.0001
FUG 006 FUGEO			0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.001
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87			0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001
TRT 001 3-87			0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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**All phases**

Polynuclear Aromatic Hydrocarbons			Propionaldehyde			Propylene oxide			Pyridine			Selenium (and compounds)			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 -47	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 255 2-37	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 258 24602-f															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001
FUG 006 FUGEO	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 crfs															
RLP 012 4-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Air - Title V Regular Permit Minor Mod

**All phases**

Subject Item	Silver			Styrene			Tetrachloroethylene			Thallium			Toluene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87			0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.001	0.001	0.05	0.05	0.21
EQT 255 2-87	0.015	0.152	0.067	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.001	0.001	0.018	0.018	0.077
EQT 258 2-602-f													0.002	0.002	0.009
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74			0.0003	0.0003	0.001	0.0003	0.0003	0.0003	0.0003	0.001	0.001	0.001	0.06	0.06	0.25
FUG 006 FUGEO			0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.01	0.01	0.01	0.534	0.534	2.3
GRP 041 1-92															
GRP 095 BAS													0.42	3.02	1.85
GRP 096 CFS													1.38	10.12	6.03
RFLP 012 4-87			0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.001	0.001	0.001	0.05	0.05	0.21
TRT 001 3-87			0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.001	0.001	0.001	0.05	0.05	0.21

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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**All phases**

Subject Item	Toluene-2,4-diisocyanate			Toluene-2,6-Diisocyanate			Trichloroethylene			Vinyl acetate			Vinyl chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	0.002	0.002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 255 2-87	0.002	0.002	0.001	.0002	.0002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
EQT 258 24602-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.002	0.002	0.001	.0003	.0003	.001	0.0002	0.0002	0.001	0.0003	0.0003	0.001	0.0003	0.0003	0.001
FUG 006 FUGEO	0.02	0.02	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 cfs															
RLP 012 4-87	0.002	0.002	0.001	.0002	.0002	.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001
TRT 001 3-87	0.002	0.002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001	0.0002	0.0002	0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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Air - Title V Regular Permit Minor Mod

**All phases**

Subject Item	Vinylidene chloride			Xylene (mixed isomers)			Zinc (and compounds)			n-Hexane			n-butyl alcohol		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 010 1-87	.0002	.0002	.0002	.001	.0002	0.0002	0.001			0.0004	0.0004	0.0002	.0002	.0002	.001
EQT 255 2-87	.0002	.0002	.0002	.001	.0005	0.0007	0.02	0.003	0.076	0.012	0.0002	0.0002	0.001	.0002	.0002
EQT 258 24602-F															
EQT 261 3-04															
EQT 262 4-78															
EQT 320 5-74	0.0003	0.0003	0.0001	0.0003	0.0003	0.0001				0.0005	0.0005	0.0002	0.0003	0.0003	0.001
FUG 006 FUGEO	.002	.002	.01	.0002	.0002	0.002	0.01			0.005	0.005	0.02	0.002	0.002	0.01
GRP 041 1-92															
GRP 095 BAS															
GRP 096 CFS															
RLP 012 4-87	.0002	.0002	.001	.0002	.0002	0.0002	0.001			0.0004	0.0004	0.0002	0.0002	0.0002	0.001
TRT 001 3-87	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.001			0.0004	0.0004	0.0002	0.0002	0.0002	0.001

**Note:** Emission rates in bold are from alternate scenarios and are not included in permitted totals**Permit Parameter Totals:**

1,1,1-Trichloroethane: 0.015 tons/yr

1,1,2,2-Tetrachloroethane: 0.015 tons/yr

1,1,2-Trichloroethane: 0.024 tons/yr

1,2-Dibromoethane: 0.015 tons/yr

1,2-Dichloroethane: 0.015 tons/yr

1,2-Dichloropropane: 0.015 tons/yr

1,3-Butadiene: 0.015 tons/yr

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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**All phases**

1,4-Dichlorobenzene: 0.015 tons/yr  
 1,4-Dioxane: 0.015 tons/yr  
 2,2'-dichlorodiethyl ether: 0.015 tons/yr  
 2,4-Dinitrotoluene: 0.015 tons/yr  
 2,6-Dinitrotoluene: 0.015 tons/yr  
 2-nitro-Propane: 0.015 tons/yr  
 Acetaldehyde: 0.015 tons/yr  
 Acetonitrile: 0.015 tons/yr  
 Acrolein: 0.015 tons/yr  
 Acrylamide: 0.015 tons/yr  
 Acrylic acid: 0.015 tons/yr  
 Acrylonitrile: 0.015 tons/yr  
 Allyl chloride: 0.015 tons/yr  
 Ammonia: 1.085 tons/yr  
 Aniline: 0.015 tons/yr  
 Antimony (and compounds): 0.009 tons/yr  
 Arsenic (and compounds): 0.006 tons/yr  
 Barium (and compounds): 0.061 tons/yr  
 Benzene: 0.015 tons/yr  
 Beryllium (Table 51.1): 0.006 tons/yr  
 Biphenyl: 0.015 tons/yr  
 Cadmium (and compounds): 0.037 tons/yr  
 Carbon disulfide: 0.015 tons/yr  
 Carbon tetrachloride: 0.035 tons/yr  
 Carbonyl sulfide: 0.015 tons/yr  
 Chlorine: 0.440 tons/yr  
 Chlorobenzene: 0.152 tons/yr  
 Chloroethane: 0.015 tons/yr  
 Chloroform: 0.109 tons/yr  
 Chloroprene: 0.015 tons/yr  
 Chromium VI (and compounds): 0.006 tons/yr  
 Copper (and compounds): 0.025 tons/yr

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

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**All phases**

Cresol: 0.015 tons/yr  
 Cumene: 0.015 tons/yr  
 Cyanide compounds: 0.0000007 tons/yr  
 Diaminotoluene (mixed isomers): 0.015 tons/yr  
 Diбуetyl phthalate: 0.015 tons/yr  
 Dichloromethane: 0.055 tons/yr  
 Epichlorohydrin: 0.015 tons/yr  
 Ethyl Acrylate: 0.015 tons/yr  
 Ethyl benzene: 0.034 tons/yr  
 Ethylene glycol: 0.398 tons/yr  
 Ethylene oxide: 0.015 tons/yr  
 Formaldehyde: 0.015 tons/yr  
 Glycol ethers (Table 51.1): 0.015 tons/yr  
 Hexachlorobenzene: 0.015 tons/yr  
 Hexachlorobutadiene: 0.015 tons/yr  
 Hexachloroethane: 0.015 tons/yr  
 Hydrazine: 0.015 tons/yr  
 Hydrochloric acid: 5.94 tons/yr  
 Hydrofluoric acid: 0.015 tons/yr  
 Hydrogen cyanide: 0.018 tons/yr  
 Hydrogen sulfide: 0.015 tons/yr  
 Lead compounds: 0.037 tons/yr  
 Maleic anhydride: 0.015 tons/yr  
 Manganese (and compounds): 0.141 tons/yr  
 Mercury (and compounds): 0.032 tons/yr  
 Methanol: 9.303 tons/yr  
 Methyl ethyl ketone: 0.015 tons/yr  
 Methyl isobutyl ketone: 0.015 tons/yr  
 Methyl methacrylate: 0.005 tons/yr  
 n-butyl alcohol: 0.015 tons/yr  
 n-Hexane: 0.029 tons/yr  
 Naphthalene: 0.015 tons/yr

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2367 - Syngenta Crop Protection Inc - St Gabriel Plant

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Air - Title V Regular Permit Minor Mod

### All phases

Nickel (and compounds): 0.031 tons/yr  
Nitrobenzene: 0.015 tons/yr  
Phenol: 0.015 tons/yr  
Phosgene: 0.015 tons/yr  
Phthalic Anhydride: 0.015 tons/yr  
Polynuclear Aromatic Hydrocarbons: 0.015 tons/yr  
Propionaldehyde: 0.015 tons/yr  
Propylene oxide: 0.015 tons/yr  
Pyridine: 0.015 tons/yr  
Selenium (and compounds): 0.007 tons/yr  
Silver: 0.067 tons/yr  
Styrene: 0.015 tons/yr  
Tetrachloroethylene: 0.015 tons/yr  
Thallium: 0.014 tons/yr  
Toluene-2,4-diisocyanate: 0.015 tons/yr  
Toluene-2,6-Diisocyanate: 0.015 tons/yr  
Toluene: 11.15 tons/yr  
Trichloroethylene: 0.015 tons/yr  
Vinyl acetate: 0.015 tons/yr  
Vinyl chloride: 0.015 tons/yr  
Vinylidene chloride: 0.015 tons/yr  
Xylene (mixed isomers): 0.035 tons/yr  
Zinc (and compounds): 0.012 tons/yr

### Emission Rates Notes: